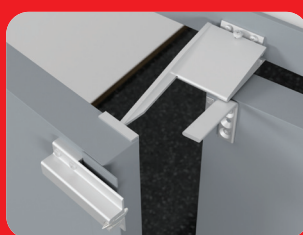




ZERO*plus*

Catalogue & Price List



Specialist architectural
hardware suppliers to the
door openings industry

List prices subject to discount

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WE TAKE QUALITY SERIOUSLY

Zero Seal Systems is a leading specialist supplier of door hardware. We believe passionately in the importance of quality. In fact our whole business is built on it. Since opening our own doors in 1997, we've only ever stocked and promoted products that we're confident our customers can completely rely on. And as an ISO 9001 accredited company, we're just as serious about the support and service we provide. Across every level of our business our staff are efficient, professional and hands-on. They've all spent time working in our warehouse learning how we do things and handling the products we sell. It means that everyone at Zero has an excellent knowledge of our products, and shares our 'get it right first time' attitude. It's this commitment to excellent customer service that truly sets us apart in the industry, and makes Zero the one supplier you can always count on.



VISIT OUR WEBSITE

We have been printing a hard copy of our red catalogue for over 20 years, and it continues to remain popular even in this digital age. However, if you would prefer a digital copy, or want a digital copy on your pc alongside your hard copy, then just let us know and we'll email you a download link. We also have an unpriced digital version called No.26 for which we can email you a link; some customers prefer this version when forwarding our product details on to their own clients. Every quarter, we send out to our customers an e-shot bulletin with company and product news; if you do not already receive this and would like to register, just let us know. We try to keep it informative without being intrusive.

And of course, details of all our products can be found on our website, www.zeroplus.co.uk. We believe our website is our future, so we have recently invested heavily in developing it and making it easier to use. Why not save it in your favourites?

- Fast, intuitive product search with recommendations and photos as you type.
- Quick access from the homepage to some of our key products.
- Knowledge Base section.
- Up to the minute news of product launches, testing and extended ranges.
- Responsive with handheld devices for when you are on the move.
- Fully ecommerce.

Coming in 2022 will be a new B2B trade only website, for new and existing trade customers. By simply just logging in, customers will be able to view stock, check prices, and place orders directly via the website. We believe firmly in offering an easy, up to date transaction process for our customers, with the new trade only website being further proof of our commitment to this.



DELIVERY CHARGES

Our customers are spread throughout the UK and Ireland and we also have many customers in continental Europe. Orders can be despatched anywhere in the world by our network of couriers. We acknowledge all orders giving a firm despatch date. Orders received before 3pm are generally despatched the same day; orders for items not available from stock will be acknowledged confirming the anticipated despatch date. Our full terms and conditions of sale are on page 275, but the answers to the most frequently asked questions are as follows:

We do not have a minimum order charge. We value every order whatever its size.

We acknowledge all orders giving an accurate delivery date. Wherever possible we try to despatch on the same day an order is received, providing it is received before 3pm.

Standard delivery costs are as follows:

LOCATION	PRICE	DELIVERY TIME	CARRIAGE PAID
England (ENG), Scotland except Highlands (SCO), Wales (CYM)	£10.50	next day before 6pm	£300
Isle of Wight (IOW)	£21.50	next day before 6pm	£250
Ireland (IRL), Northern Ireland (NI)	£33.50	2-5 days	£600
Guernsey (GBG), Isle of Man (GBM), Jersey (GBJ), Scottish Highlands (SCO)	£49.00	2-3 days	£500
Continental Europe (EUR)	call	call	call

Scottish Highlands (SCO) applies to all IV postcodes, KW1-14, PA34, PA37-39, PH19-40, PH49-50 and PH41 sector 4).

All deliveries to Ireland and Europe supplied on DAP terms.

Deliveries to residential addresses incur a £7.50 surcharge.

Maximum length of package 3.2 metres. Additional carriage may be charged on orders for glass.

If multiple delivery addresses or dates are requested then carriage charges will apply even though the total order value may exceed the carriage paid amount. Only one carriage paid despatch per order will be offered.

We use an overnight carrier service for England, Wales and Scotland (excluding the Scottish Highlands) and on average a 2-5 day service for Ireland, but this may vary depending on parcel size and weight. Special deliveries can be arranged for UK mainland:

LOCATION	BEFORE NOON	BEFORE 10:30AM	BEFORE 9:30AM	SATURDAY	SATURDAY BEFORE NOON
England (ENG), Scotland except Highlands (SCO), Wales (CYM)	£20.50	£37.00	£47.00	£39.50	£52.00

Prices for special deliveries to Ireland and Scottish Highlands on application.

We believe service is vitally important and we have built our business on meeting and trying to exceed our customers' requirements. We operate in an industry where service levels are notoriously poor and we have tried to buck the trend.

ZERO - 'WHEN NOTHING ELSE IS GOOD ENOUGH FOR LONG ENOUGH'

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CONTENTS

CATEGORY

PAGES

DOOR SEALS

Dropseals, frame seals, thresholds and brush strips

4 - 60

SELF-ADHESIVE SEALS

Self-adhesive silicone teardrop, EPDM frame seals and brush pile

61 - 69

RESCUE HARDWARE

Emergency door stops and pivot sets

70

INTUMESCENT

Lock packs, hinge pads and strips

71 - 73

VISIONS, GLASS & GLAZING TAPES

Metal vision frames, portholes, privacy visions, glass and glazing tapes

74 - 99

LOUVRES & MESH

Metal louveres, fire block louver system and bird & insect mesh

100 - 113

FIXINGS & ACCESSORIES

Sleeve anchors, screwdriver inserts and drill bits

114

HINGES & HINGE BOLTS

Dog bolts, butt hinges, continuous hinges, weld-on hinges and spring hinges

115 - 122

CLOSERS

Door closers, transom closers, gate closers and floor springs

123 - 130

DOOR SELECTORS

Door selectors and co-ordinators

131 - 135

LOCKS, LATCHES, CYLINDERS & ELECTROMAGNETS

Mortice locks, multi-point locks, cylinders, electromagnets and access control

136 - 149

DOOR LOOPS & POWER TRANSFERS

Surface fixing door loops and concealed pattern transfer units

150 - 154

WORKTOP WASTE BEZELS

Circular and square worktop waste disposal trims

155

GLASS DOOR LOCKSETS & PATCH FITTINGS

MAB Elite series glass door locks, lever furniture and patch fittings

156 - 157

ASTRAGALS & SECURITY STRIPS

Lock plates and anti-jimmy strips

158 - 159

DOOR FURNITURE & SIGNAGE

Lever and pull handles, stops and holders, letter plates, viewers and signage

160 - 173

EXIT HARDWARE DEVICES

Panic bolts, emergency exit hardware and outside access devices

174 - 201

DOOR STAYS, HOLDERS & BUFFERS

Door limit stays, friction stays, restraints and stops

202 - 219

CYCLE SUPPORTS & BARRIER RAILS

Cycle supports and barrier rails

220

BOLTS, FLUSH BOLTS & SOCKETS

Slide bolts, concealed flush bolts, automatic flush bolts and receiving sockets

221 - 228

GATE FITTINGS

Stainless steel and mild steel gate fittings

229 - 231

FINGER PROTECTION

White and coloured finger protection devices

232 - 237

SLIDING DOOR GEAR

Straight sliding and folding sliding systems

238 - 261

INDEXES

Alphabetic and numeric indexes

262 - 269

CONVERSION TABLES, STANDARDS & LEGISLATION

Weight, measures, temperature, pressure, British Standards and door handing chart

270 - 273

TERMS & CONDITIONS OF SALE

Conditions of sale

275

ZERO DROPSEALS

Zero dropseals are fitted to the bottom of the door and automatically drop down each time the door is closed (adjustable drop up to 22.2mm on some patterns). The mechanical unit requires no electrical power to operate, and works on a hinge side plunger with flat spring mechanism that drops the neoprene gasket in a scissor like motion for a tight seal without any drag, even on an uneven floor. As the neoprene seal compresses, it forms a tight secure bond against the threshold or floor. The door seal retracts automatically when the door is opened.

FEATURES

- Adjustable drop to 12.7mm, 19.1mm or 22.2mm as detailed.
- Surface mounted or mortice patterns.
- Units can be trimmed on site.
- Sizes 254mm - 2438mm.
- Fire rated.
- Integral intumescent available (see page 8).
- Light springing (L/S) pattern available for wheelchair users (see page 8).
- Variety of finishes - anodised aluminium (AA), dark bronze anodised (D) and gold anodised (G).
- Tested to 5 million cycles.
- Non-handed (except 321AA and 323AA).
- Suitable for double doors.
- UL Listed in USA, File GVV1.R18465.

FUNCTIONALITY

All Zero automatic drop seals function the same way. The mechanism causes the insert seal to activate on the hinge side first. It prevents the seal from dragging along the floor or threshold while the door is being closed to avoid door hang-up or closing delay.

SIZES

The product is available in stock sizes from 254mm to 2438mm in 152mm increments, and may be cut down by up to 152mm (less for sizes under 762mm) from the non-operating end to suit exact door widths. Units are not handed (except 321AA and 323AA), and operate from one end only so they can be used on pairs of doors.

SPECIALITY DROPSEALS

Special purpose dropseals are also available (see pages 8-9) with light springing for wheelchair users, 'FLO' option for increased airflow, and a modified internal mechanism for use in sliding doors. These units ensure an effective seal at the bottom of the door against air and smoke filtration, or penetration by sound, light, flames and toxic gases. Used in conjunction with other Zero frame seals they form part of a total door kit.

CYCLE TESTING

Zero dropseals have been tested to five million cycles and are available in either surface mounted (for retrofit), or mortice.

FIRE - TIMBER DOORS

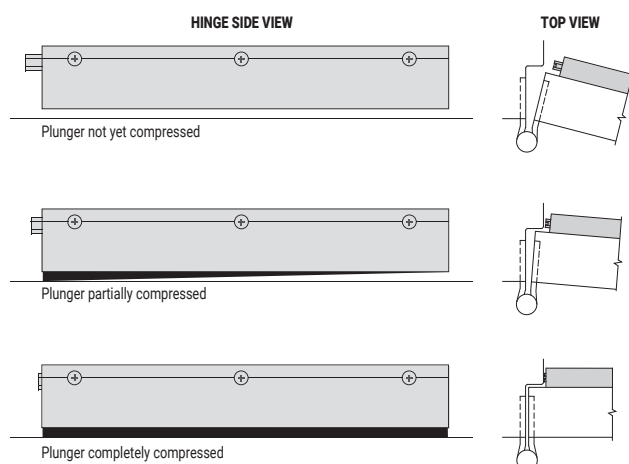
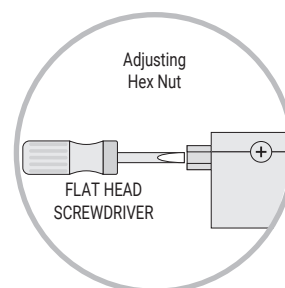
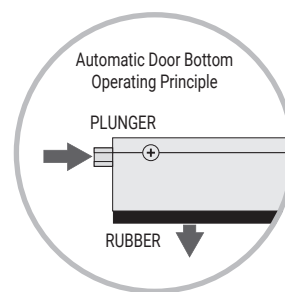
Patterns 321AA, 351AA, 361AA, 365AA and 367AA are assessed for up to 90 minutes integrity performance to BS 476-22: 1987 or BS EN 1634-1: 2000. Report 187914 available upon request.

FIRE - STEEL DOORS

Patterns 320AA, 321AA, 323AA, 350AA, 351AA, 354AA, 355AA, 360AA, 361AA, 364AA, 364FSAA, 365AA, 365FSAA, 367AA and 369AA are assessed for up to 180 minutes integrity performance to BS EN 1634-1: 2014. Report NC26268 available upon request.

CORROSION

Zero dropseals have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670: 2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



ZERO DROPSEALS

TYPICAL BUILDINGS REQUIRING DROPSEALS

Entrances: particularly in areas of inclusive design where thresholds are not allowed.

Entertainment: cinemas (keeping sound out), nightclubs (keeping sound in), theatres, stadia.

Broadcasting: TV & Radio companies, recording studios.

Travel: airports, railways, ferry terminals.

Industrial: oil rigs, turbine rooms, plant rooms, factory offices.

Medical: doctors' surgeries, health centres, hospitals, consulting rooms.

Business: offices, meeting/conference rooms, computer rooms.

Education: university/college lecture theatres, research facilities, music rooms.

Public: libraries.

Interview rooms: police stations, magistrates courts, banks, building societies, drink & drugs rehabilitation, legal practices, probation offices.

Research: laboratories, dark rooms.

Leisure: hotel bedrooms, conference facilities.

STANDARD ZERO DROPSEALS - PRICING GRID																	
REF	STANDARD SIZES (MM)																
	254	305	381	460	533	610	685	762	914	1067	1219	1371	1524	1676	1828	2134	2438
320AA	-	£114.21*	-	£71.31	-	£39.96	-	£39.96	£39.96	£42.61	£42.61	£95.03	£118.73	£136.14	-	-	-
321AA	-	-	-	£79.06	-	£45.03	-	£45.03	£45.03	£54.99	£54.99	£127.35	£159.24*	-	-	-	-
323AA*	-	-	-	£65.80*	-	£65.80*	-	£65.80*	£65.80*	£70.11*	£70.11*	£86.92*	£109.49*	-	-	-	-
350AA	-	-	-	£71.91*	-	£71.91	-	£71.91	£71.91	£76.62	£76.62	£95.71*	£119.77*	£196.42*	£217.88*	-	-
351/352AA	-	£106.70*	-	£85.37*	-	£85.37*	-	£85.37	£85.37	£102.56	£102.56	£128.26*	£160.34*	£245.12*	£267.14*	-	-
355AA	-	£89.09	£89.09	£69.76	£69.76	£69.76	£69.76	£69.76	£69.76	£79.07	£79.07	£103.23	£127.43	-	-	-	-
3551AA*	-	-	-	£91.14*	-	£91.14*	-	£91.14*	£91.14*	£103.28*	£103.28*	£126.65*	£163.84*	-	-	-	-
3552AA*	-	-	-	£100.27*	-	£100.27*	-	£100.27*	£100.27*	£113.62*	£113.62*	£139.29*	-	-	-	-	-
360AA	£134.18	£134.18	£134.18	£69.50	£69.50	£69.50	£69.50	£69.50	£69.50	£81.54	£81.54	£94.44	£116.28	£319.00	£351.31	£391.41	£416.68
361/362AA	-	£148.90	£148.90	£119.06	£74.63	£74.63	-	£74.63	£74.63	£90.35	£90.35	£165.04	£206.32	£348.86	£381.25	£422.06	£450.28
364AA	£134.18	£134.18	£134.18	£69.50	£69.50	£69.50	£69.50	£69.50	£69.50	£81.54	£81.54	£94.44	£116.28	£319.00	£351.31	£605.23	£644.57
365/366AA	-	£154.82	£154.82	£123.79	£74.63	£74.63	£74.63*	£74.63	£74.63	£90.35	£90.35	£179.79	£224.70	£348.86	£381.25	£458.85*	£503.41
367/368AA	-	£202.33	-	£155.62	-	£155.62	-	£155.62	£155.62	£178.98	£178.98	£218.86	£279.61*	-	-	-	-
369AA	-	-	-	£141.47*	-	£141.47	-	£141.47	£141.47	£162.67	£162.67	£203.35*	£254.77*	-	-	-	-

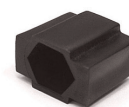
NOTES:

Most sizes may be cut down by up to 152mm from the non-operating end during installation.

ALL PRICES ARE EACH - DO NOT PRO RATA SIZES

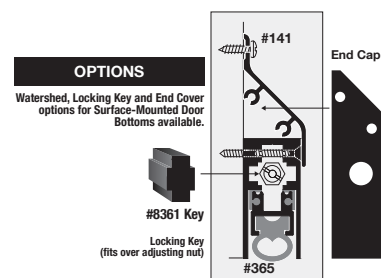
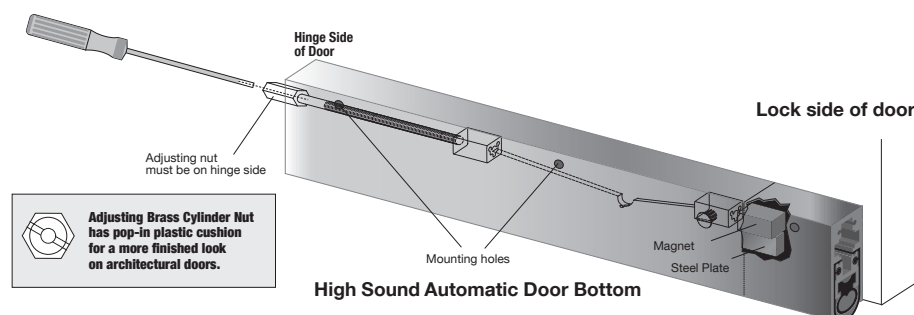
Automatic door bottoms may be trimmed by up to 152mm on site. Full instructions supplied. Prices for anodised aluminium (AA) shown above. Prices for dark bronze (D) and gold anodised (G) on application.

363N	Replacement serrated sponge neoprene only for 360/361/362 auto door bottoms	£22.05	metre
365N	Replacement bulbous neoprene only for 364/365/366 auto door bottoms	£25.81	metre



#8361 LOCKING NUT

Locking Key to suit surface mounted dropseals 361AA, 365AA & 367AA (fits over adjusting nut). Cannot be used with end cap. £5.76 each



(For 141A and end caps see page 47)

ZERO DROPSEALS

320AA

Reversible medium duty dropseal.

Mortice pattern.

Anodised aluminium.

Solid neoprene extrusion.

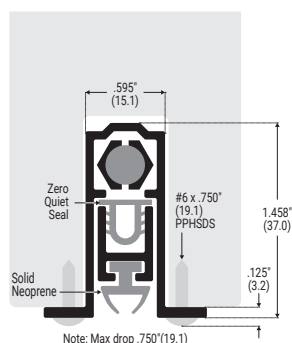
Maximum drop 19.1mm.

Fire rated. See page 4 for details.

762mm & 914mm £39.96 each

1067mm & 1219mm £42.61 each

Prices for other sizes on page 5.



321AA (HANDED)

Medium duty dropseal.

Surface fixing pattern with hood.

Anodised aluminium.

Solid neoprene extrusion.

Maximum drop 19.1mm.

Fire rated. See page 4 for details.

762mm & 914mm £45.03 each

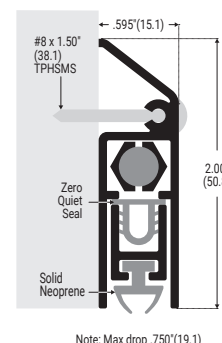
1067mm & 1219mm £54.99 each

Prices for other sizes on page 5.

See handing diagram on page 4.

Reversible handing.

This product has been successfully tested to BS EN 1634-3:2004 and is suitable for smoke control doors. Leakage does not exceed 3m³/hour per metre of frame gap at a pressure of 25 Pa. Copy of WF Report No 185149 available upon request.



323AA* (HANDED)

Medium duty dropseal.

Mortice pattern.

Anodised aluminium.

Solid neoprene extrusion.

Only one row of mounting holes required.

Maximum drop 19.1mm.

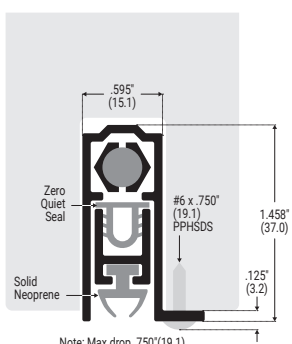
Fire rated. See page 4 for details.

762mm* & 914mm* £65.80 each

1067mm* & 1219mm* £70.11 each

Prices for other sizes on page 5.

Reversible handing.



350AA

Reversible medium duty dropseal.

Mortice pattern.

Anodised aluminium.

Solid neoprene extrusion.

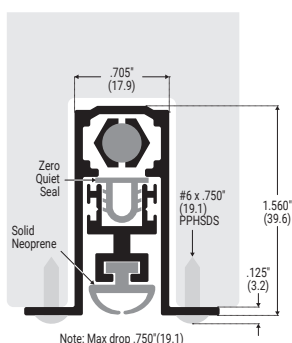
Maximum drop 19.1mm.

Fire rated. See page 4 for details.

762mm & 914mm £71.91 each

1067mm & 1219mm £76.62 each

Prices for other sizes on page 5.



351AA/352AA

Reversible medium duty dropseal.

Surface fixing (351)

Semi morticed pattern (352).

Anodised aluminium.

Solid neoprene extrusion.

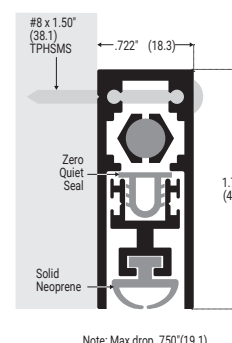
Maximum drop 19.1mm.

Fire rated. See page 4 for details.

762mm & 914mm £85.37 each

1067mm & 1219mm £102.56 each

Prices for other sizes on page 5.



3551AA*

Reversible OEM dropseal.

Mortice pattern.

OEM pattern - fits neatly into inverted channel in door bottom.

Anodised aluminium.

Solid neoprene extrusion.

No end caps required.

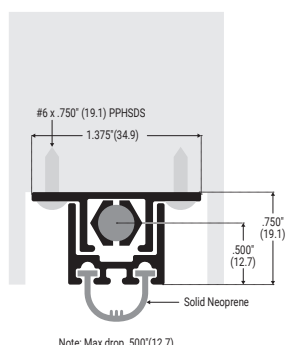
Maximum drop 12.7mm.

762mm* & 914mm* £91.14 each

1067mm* & 1219mm* £103.28 each

Prices for other sizes on page 5.

(max size 1524mm)



3552AA*

Reversible OEM dropseal.

Mortice pattern.

OEM pattern - fits neatly into inverted channel in door bottom.

Anodised aluminium.

Double nylon brush.

No end caps required.

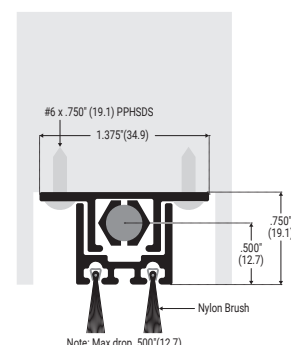
Maximum drop 12.7mm.

762mm* & 914mm* £100.27 each

1067mm* & 1219mm* £113.62 each

Prices for other sizes on page 5.

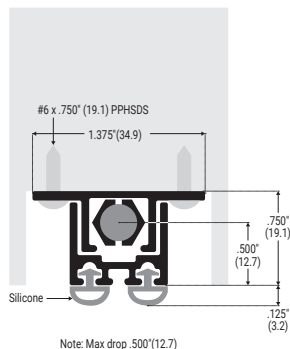
(max size 1371mm)



ZERO DROPSEALS

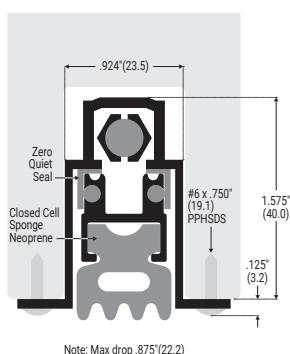
355AA

Reversible OEM dropseal.
Mortice pattern.
OEM pattern - fits neatly into inverted channel in door bottom.
Anodised aluminium.
Double silicone extrusion.
No end caps required.
Maximum drop 12.7mm.
Fire rated. See page 4 for details.
762mm & 914mm £69.76 each
1067mm & 1219mm £79.07 each
Prices for other sizes on page 5.
(max size 1524mm).



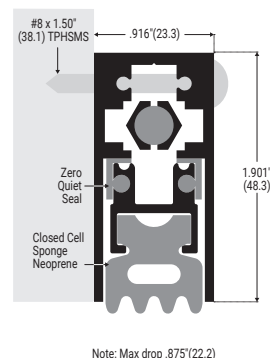
360AA

Reversible heavy duty dropseal.
Mortice pattern.
Anodised aluminium.
Closed cell sponge neoprene.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £69.50 each
1067mm & 1219mm £81.54 each
Prices for other sizes on page 5.



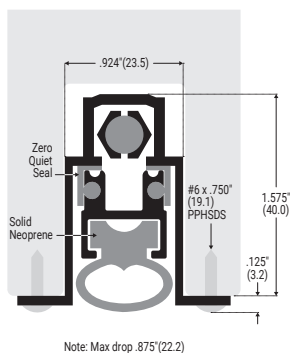
361AA/362AA

Reversible heavy duty dropseal.
Surface fixing (361)
Semi morticed pattern (362).
Anodised aluminium.
Closed cell sponge neoprene.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £74.63 each
1067mm & 1219mm £90.35 each
Prices for other sizes on page 5.



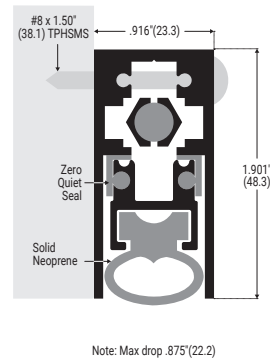
364AA

Reversible heavy duty dropseal.
Mortice pattern.
Anodised aluminium.
Solid neoprene extrusion.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £69.50 each
1067mm & 1219mm £81.54 each
Prices for other sizes on page 5.
This product has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



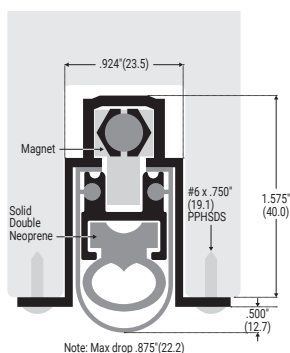
365AA/366AA

Reversible heavy duty dropseal.
Surface fixing (365)
Semi morticed pattern (366).
Anodised aluminium.
Solid neoprene extrusion.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £74.63 each
1067mm & 1219mm £90.35 each
Prices for other sizes on page 5.
This product has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



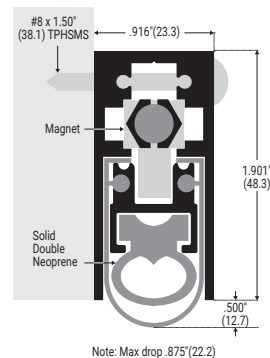
369AA

Reversible very heavy duty dropseal.
Mortice pattern.
Anodised aluminium.
Double neoprene extrusion.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £141.47 each
1067mm & 1219mm £162.67 each
Prices for other sizes on page 5.



367AA/368AA

Reversible very heavy duty dropseal.
Surface fixing (367)
Semi morticed pattern (368).
Anodised aluminium.
Double neoprene extrusion.
Maximum drop 22.2mm.
Fire rated. See page 4 for details.
762mm & 914mm £155.62 each
1067mm & 1219mm £178.98 each
Prices for other sizes on page 5.

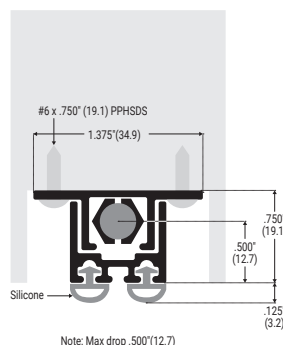


ZERO SPECIALITY DROPSEALS

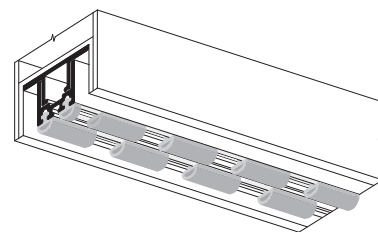
FLO OPTION DROPSEAL - NOTCHED NEOPRENE

This dropseal is designed for those situations where a certain amount of airflow may be required underneath the door. The two silicone gaskets are notched and overlapped to facilitate airflow. Can also be supplied with three rows of neoprene at extra cost. Maximum effective drop 12.7mm.

355AA-FLO*	762mm* & 914mm*	£134.47 each
	1067mm* & 1219mm*	£161.06 each



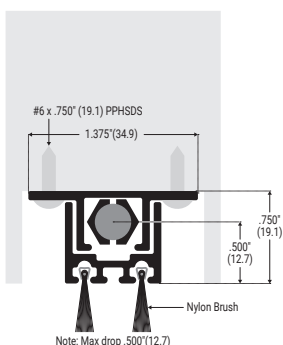
355AA-FLO



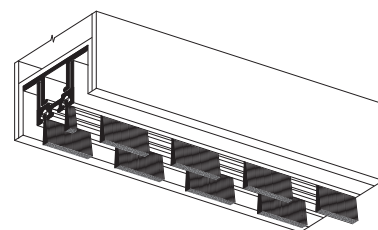
FLO OPTION DROPSEAL - NOTCHED BRUSH

This dropseal is designed for those situations where a certain amount of airflow may be required underneath the door. The two brush strips are notched and overlapped to facilitate airflow. Only available with two rows of brush. Maximum effective drop 12.7mm.

3552AA-FLO*	762mm* & 914mm*	£129.14 each
	1067mm* & 1219mm*	£152.12 each



3552AA-FLO

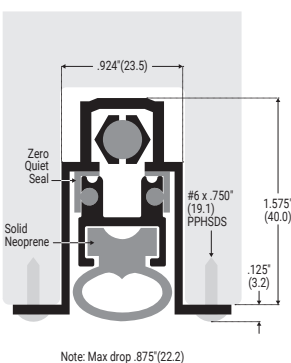


DROPSEALS WITH LIGHT SPRINGING

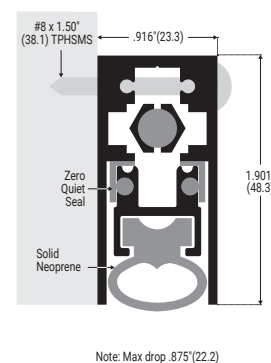
Where doors in public areas are likely to be used by wheelchair users, lower closing and opening forces may be required. "LS" models require lower operating forces than standard products although product dimensions are unchanged from standard products. These models are suitable for both sliding and hinged doors. Mortice and surface fixing patterns both available.

Patterns available: 350LS-AA*, 351LS-AA*, 364LS-AA*, 365LS-AA*. Maximum effective drop 22.2mm. Prices for other patterns and sizes on application.

364LS-AA*	762mm* & 914mm*	£161.05 each
	1067mm* & 1219mm*	£181.03 each
365LS-AA*	762mm* & 914mm*	£175.94 each
	1067mm* & 1219mm*	£202.89 each



364LS-AA

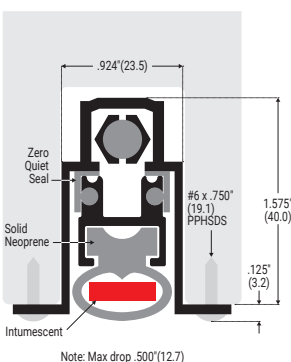


365LS-AA

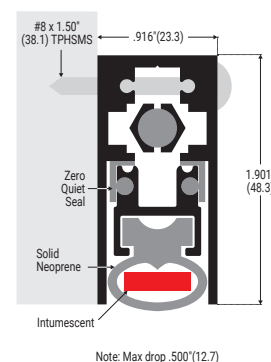
FSA DROPSEAL WITH INTUMESCENT

The 364AA and 365AA dropseals can be supplied with intumescent concealed within the neoprene gasket. In the event of fire this expands and fills the gap between the floor and the bottom of the door. Maximum effective drop 12.7mm. Prices for other sizes on application. Fire rated, see page 4 for details.

364FS-AA	762mm & 914mm	£200.95 each
	1067mm & 1219mm	£237.45 each
365FS-AA	762mm & 914mm	£224.19 each
	1067mm & 1219mm	£269.01 each



364FS-AA



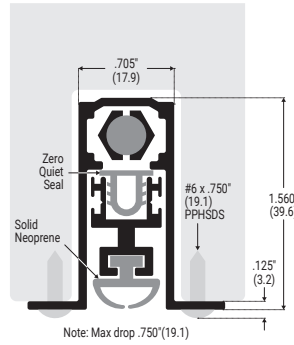
365FS-AA

ZERO SPECIALITY DROPSEALS

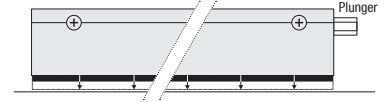
DROPSEALS FOR SLIDING DOORS

This dropseal functions differently from all other Zero dropseals. When the plunger is compressed, the mechanism causes the insert seal to activate and drop evenly along the complete door bottom. A longer plunger may be supplied if requested. Prices for other patterns and sizes on application. Maximum effective drop 19.1mm.

7350AA*	762mm* & 914mm*	£96.73 each
	1067mm* & 1219mm*	£103.01 each

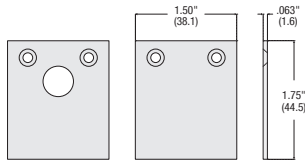


7350AA

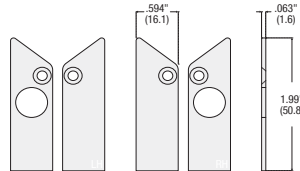


ZERO DROPSEAL END CAPS

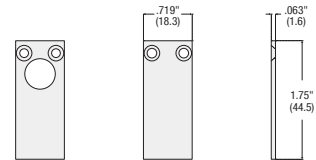
Zero dropseals are supplied with end caps as standard, manufactured from 1.6mm thick aluminium. They are available to order separately if required.



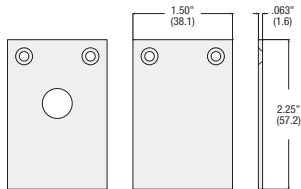
Mortice fixing end caps.
To suit 320 and 323 dropseal.
Anodised aluminium.
£10.21 set (if ordered separately)



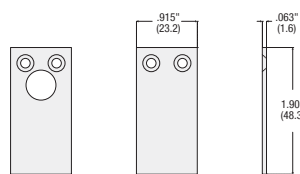
Surface fixing end caps.
To suit 321 dropseal.
Anodised aluminium.
£10.21 set (if ordered separately)



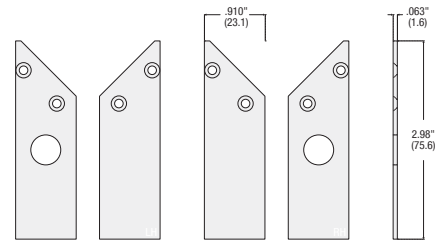
Surface fixing end caps.
To suit 351 and 352 dropseal.
Anodised aluminium.
£10.21 set (if ordered separately)



Mortice fixing end caps.
To suit 350, 360, 364, 369 and 7350 dropseals.
Anodised aluminium.
£10.21 set (if ordered separately)



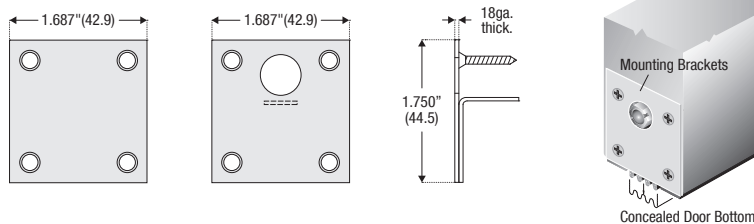
Surface fixing end caps.
To suit 361, 362, 365, 366, 367, 368 dropseals.
Anodised aluminium.
£10.21 set (if ordered separately)



Surface fixing end caps.
To suit 362, 366, 368 dropseals with 141 rain drip.
Anodised aluminium.
£10.21 set (if ordered separately)

EASY ACCESS DOOR BOTTOM WITH HANGING PLATE

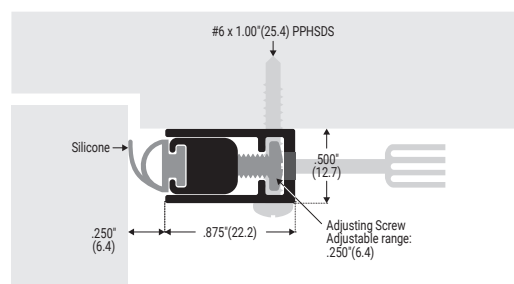
Z49 plates are designed to secure morticed automatic dropseals to the door without using bottom screws. The unit can be removed from either end without taking the door out of the frame. To order, specify for example 350AA-Z49*, or 360AA-Z49*. Not compatible with OEM pattern dropseals (354AA, 355AA, etc.)



Z49*
Holding plates/end plugs.
Steel grey primed.
(add to price for mortice dropseal)
£21.83 pair

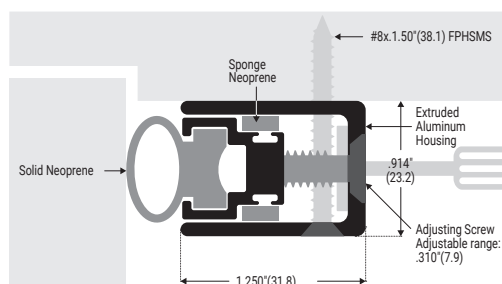
ZERO FULLY ADJUSTABLE FRAME SEALS

Sizes:	914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes:	Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), gold anodised (G), steel primed (SP), steel prime painted (SPB), and stainless steel (STST) where indicated.
Availability:	Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
Fire:	Timber doors. Products 870AA, 770AA and 7770AA are assessed for up to 90 minutes integrity performance to BS 476-22:1987 or BS EN 1634-1:2000. Report 187914 available upon request.
Smoke:	770AA tested to BS EN 1634-3:2004 and is suitable for smoke control doors. Report 185149 available upon request.
Corrosion:	770AA tested to BS EN 1670:2007 and achieved Grade 4 - 240 hours neutral salt spray exposure. Report WIL392103 available upon request.



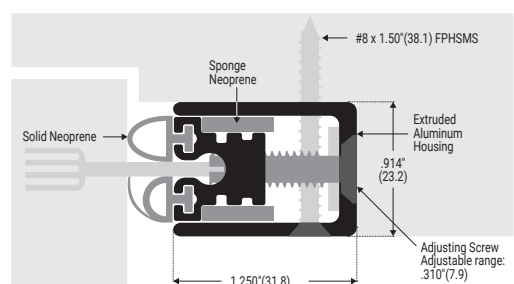
Adjustable sound seal.
Silicone flipper bulb gasket.
Included in acoustic tests up to 49 STC.
Adjusting screw, accessed from rear.
Available D finish to order at extra cost.

870AA Anodised aluminium £76.08 metre



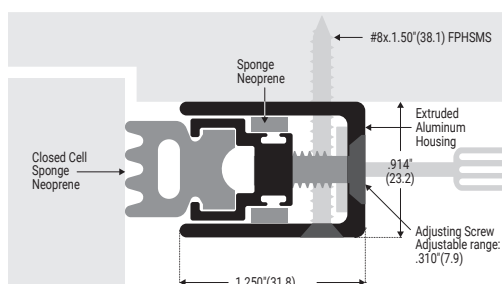
Adjustable sound seal.
Neoprene bulb gasket.
Included in acoustic tests up to 52 STC.
Adjusting screw, accessed from rear.
Note uprights are handed if supplied mitred.

770AA Anodised aluminium £122.49 metre
770D* Dark bronze anodised £172.99 metre



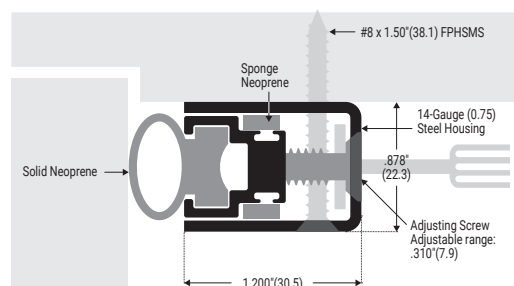
Adjustable sound seal.
Double neoprene bulb gasket.
Adjusting screw, accessed from front.
Note uprights are handed if supplied mitred.
Available D & G finishes to order at extra cost.

7770AA* Anodised aluminium £152.07 metre



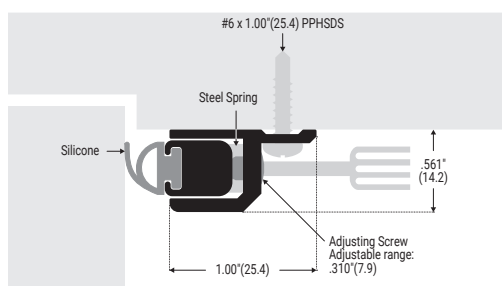
Adjustable sound seal.
Closed cell sponge neoprene gasket.
Included in acoustic tests up to 51 STC.
Adjusting screw, accessed from rear.
Note uprights are handed if supplied mitred.
Available D & G finishes to order at extra cost.

170AA* Anodised aluminium £122.49 metre



Adjustable sound seal.
Neoprene bulb gasket.
Included in acoustic tests up to 52 STC.
Adjusting screw, accessed from rear.
Note uprights are handed if supplied mitred.

770SP* Steel primed £196.67 metre
770STST* Stainless steel £372.62 metre

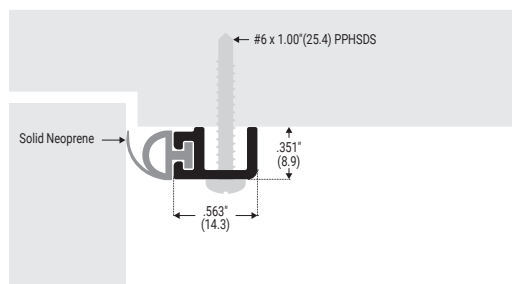


Adjustable spring loaded seal.
Silicone flipper bulb gasket.
Steel spring, adjusted from rear.
Available D finish to order at extra cost.

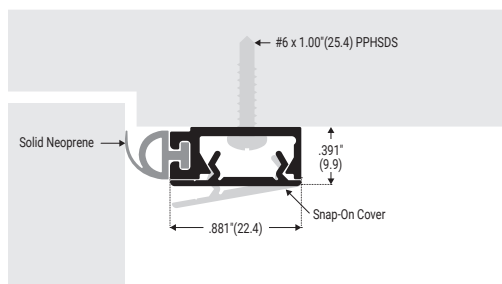
712AA* Anodised aluminium £112.66 metre

ZERO Compress-O-Matic® FRAME SEALS

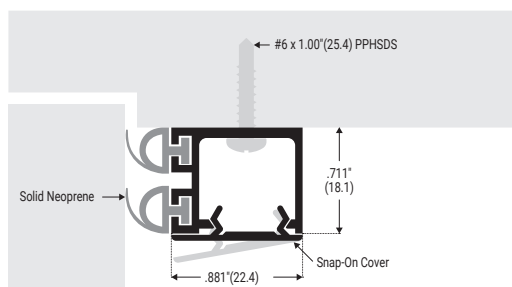
- Sizes:** 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
- Finishes:** Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), gold anodised (G), steel primed (SP), steel prime painted (SPB), and stainless steel (STST) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.
- Availability:** Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
- Fire:** Timber doors. Products 485AA, 475AA and 478AA are assessed for up to 90 minutes integrity performance to BS 476-22:1987 or BS EN 1634-1:2000. Report 187914 available upon request.
- Smoke:** 475AA tested to BS EN 1634-3:2004 and is suitable for smoke control doors. Report 185149 available upon request.
- Corrosion:** 485AA and 475AA tested to BS EN 1670:2007 and achieved Grade 4 - 240 hours neutral salt spray exposure. Report WIL392103 available upon request.



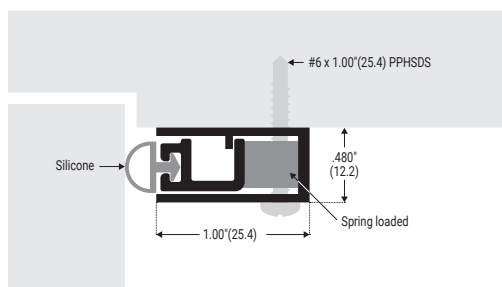
Visible fixing sound seal, elongated fixing holes.
Neoprene flipper bulb gasket.
Included in acoustic tests up to 49 STC.
Available D & G finishes to order at extra cost.
485AA Anodised aluminium £25.80 metre



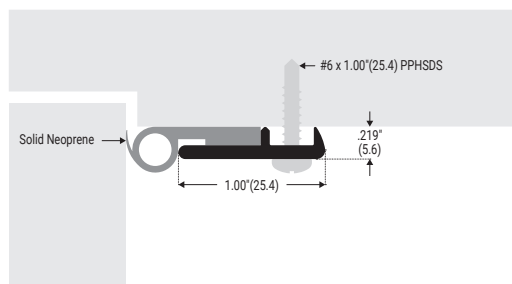
Concealed fixing sound seal, snap on cover.
Neoprene flipper bulb gasket.
Included in acoustic tests up to 49 STC.
Available D & G finishes to order at extra cost.
475AA Anodised aluminium £37.82 metre



Concealed fixing sound seal, snap on cover.
Double neoprene flipper bulb gasket.
Available D finish to order at extra cost.
478AA Anodised aluminium £58.00 metre



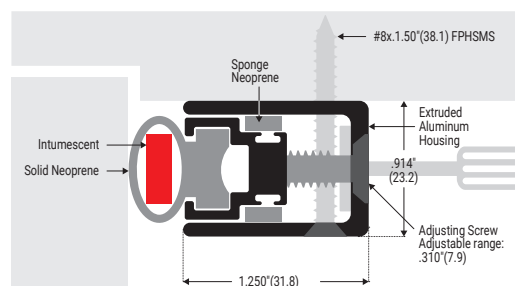
Spring loaded self-adjusting seal.
Silicone bulb gasket.
Internal spring automatically adjusts seal to door edge.
570AA Anodised aluminium £71.19 metre



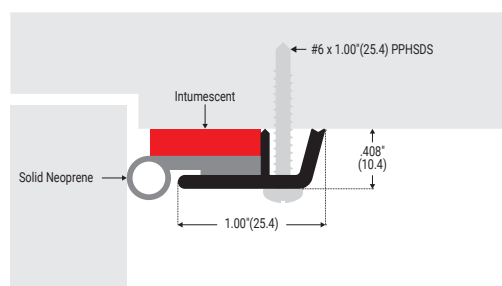
Visible fixing frame seal.
Neoprene flipper bulb gasket.
Gasket glued in place only to assist fixing.
Available B, D & G finishes to order at extra cost.
326AA Anodised aluminium £48.06 metre

ZERO INTUMESCENT FRAME SEALS

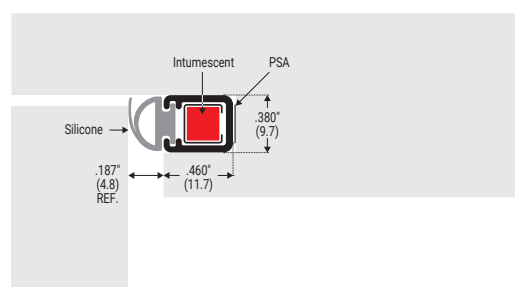
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
 Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
 Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



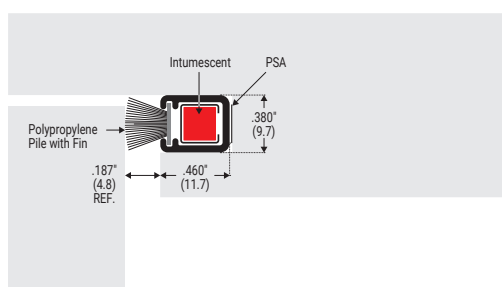
Adjustable sound seal with intumescent.
 Neoprene bulb gasket.
 Included in acoustic tests up to 52 STC.
 Adjusting screw, accessed from rear.
 Available D & G finishes to order at extra cost.
770FSAA Anodised aluminium £212.60 metre



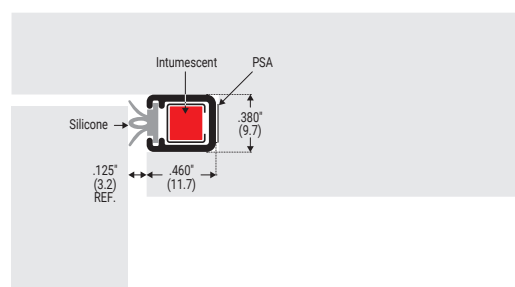
Visible fixing frame seal with intumescent.
 Neoprene bulb gasket.
 Available B, D & G finishes to order at extra cost.
328FSAA* Anodised aluminium £65.97 metre



Mortice fixing frame seal with intumescent, PSA backed.
 Silicone flipper bulb gasket.
 Available D & G finishes to order at extra cost.
5831FSAA* Anodised aluminium £42.54 metre



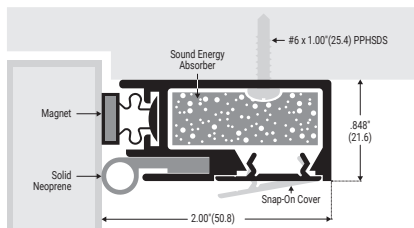
Mortice fixing frame seal with intumescent, PSA backed.
 Polypropylene pile with fin.
 Available D & G finishes to order at extra cost.
5832FSAA* Anodised aluminium £43.73 metre



Mortice fixing frame seal with intumescent, PSA backed.
 Silicone blade gasket.
 Available D & G finishes to order at extra cost.
58FSAA* Anodised aluminium £52.63 metre

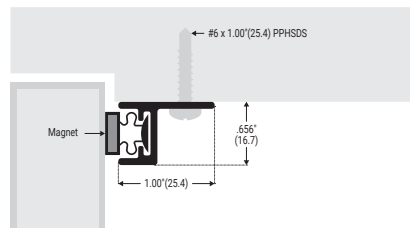
ZERO MAGNETIC FRAME SEALS

- Sizes:** 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
- Finishes:** Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated. During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.
- Availability:** Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
- Fire:** Timber doors. 3708AA assessed for up to 90 minutes integrity performance to BS 476-22:1987 or BS EN 1634-1:2000. Report 187914 available upon request.



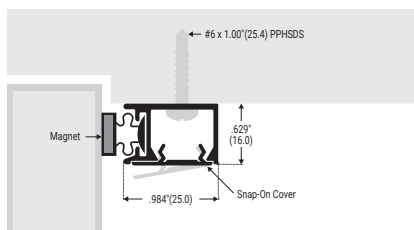
Concealed fixing magnetic frame seal, snap on cover.
Included in acoustic tests up to 53 STC.
For use with steel doors or timber doors with steel strip (by others).

3708AA Anodised aluminium £125.70 metre



Surface fixing magnetic frame seal.
For use with steel doors or timber doors with steel strip (by others).
Available D finish to order at extra cost.

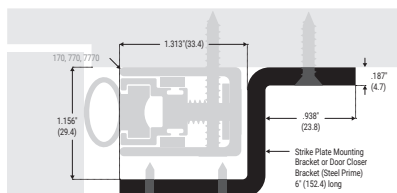
370A Mill aluminium £77.60 metre



Concealed fixing magnetic frame seal.
For use with steel doors or timber doors with steel strip (by others).
Available D finish to order at extra cost.

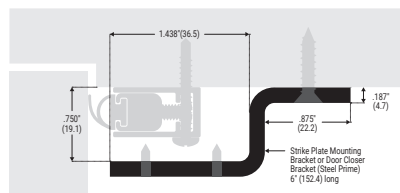
375AA Anodised aluminium £85.23 metre

ZERO FRAME SEAL BRACKETS



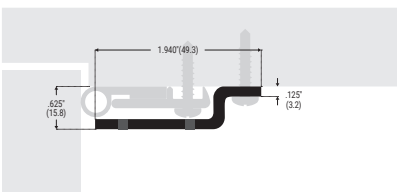
Strike plate bracket.
152mm long.
Optional angle mounting bracket for 170, 770 and 7770 frame seals to accommodate door closer brackets, panic bolt fittings or door co-ordinators.

770SPB Grey painted mild steel £47.60 each



Strike plate bracket.
152mm long.
Optional angle mounting bracket for 870 frame seal to accommodate door closer brackets, panic bolt fittings or door co-ordinators.

870SPB Grey painted mild steel £44.44 each



Strike plate bracket.
152mm long.
Optional angle mounting bracket for 328 as shown and 475 frame seals to accommodate door closer brackets, panic bolt fittings or door co-ordinators.

328SPB Grey painted mild steel £37.61 each

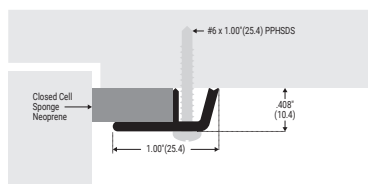
ZERO FRAME SEALS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

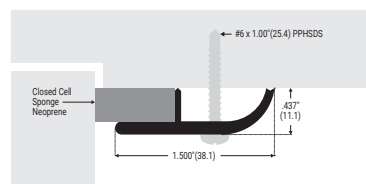
Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated. During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

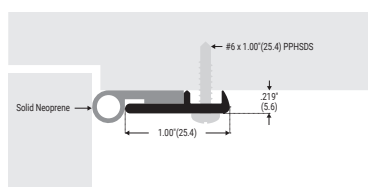
Fire: Timber doors. 322A and 328AA are assessed for up to 90 minutes integrity performance to BS 476-22:1987 or BS EN 1634-1:2000. Report 187914 available upon request.



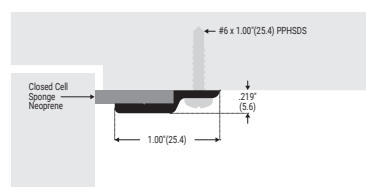
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
Available D & G finishes to order at extra cost.
318AA* Anodised aluminium £52.38 metre



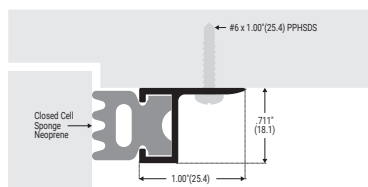
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
Elongated fixing holes.
Available D & G finishes to order at extra cost.
322A Mill aluminium £42.23 metre



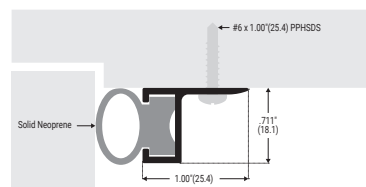
Visible fixing frame seal, elongated fixing holes.
Neoprene bulb gasket (glued in place only to assist fixing).
Available B, D & G finishes to order at extra cost.
328AA Anodised aluminium £36.73 metre



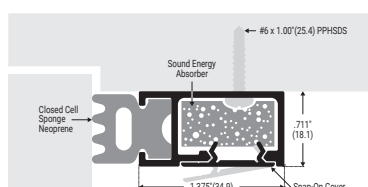
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
50AA* Anodised aluminium £33.28 metre



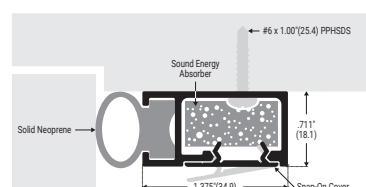
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
270A Mill aluminium £52.02 metre



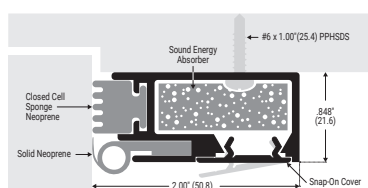
Visible fixing frame seal.
Neoprene bulb gasket.
272A Mill aluminium £52.02 metre



Concealed fixing seal, snap on cover.
Closed cell sponge neoprene gasket.
Available D finish to order at extra cost.
470AA* Anodised aluminium £87.98 metre



Concealed fixing seal, snap on cover.
Neoprene bulb gasket.
Available D finish to order at extra cost.
472AA* Anodised aluminium £108.85 metre



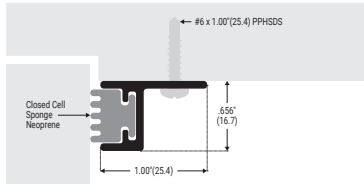
Concealed fixing seal, snap on cover.
Closed cell sponge and solid neoprene flipper bulb gaskets.
Sound energy absorber.
3709AA* Anodised aluminium £152.46 metre

ZERO FRAME SEALS

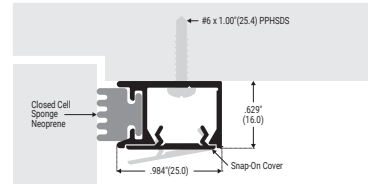
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

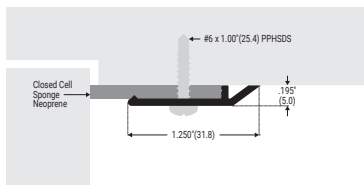
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



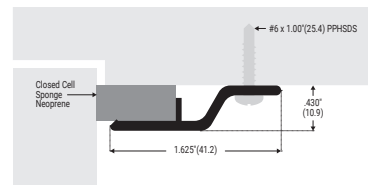
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
Available D finish to order at extra cost.
1370A* Mill aluminium £54.28 metre



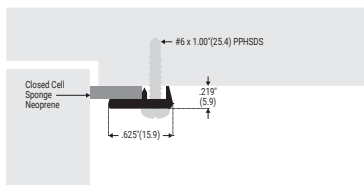
Concealed fixing frame seal, snap on cover.
Closed cell sponge neoprene gasket.
Available D finish to order at extra cost.
376AA Anodised aluminium £64.15 metre



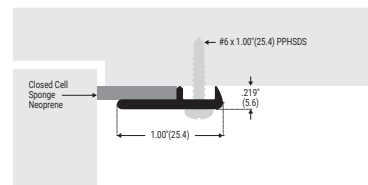
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
Available D finish to order at extra cost.
139A Mill aluminium £39.95 metre



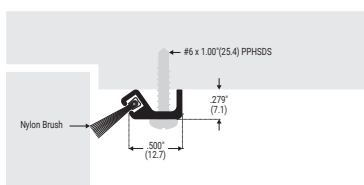
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
140A Mill aluminium £50.45 metre



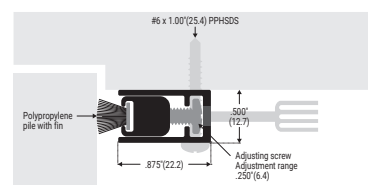
Visible fixing frame seal.
Closed cell sponge neoprene gasket.
312A Mill aluminium £28.12 metre



Visible fixing frame seal.
Closed cell sponge neoprene gasket.
Available B, D & G finishes to order at extra cost.
314AA* Anodised aluminium £44.57 metre



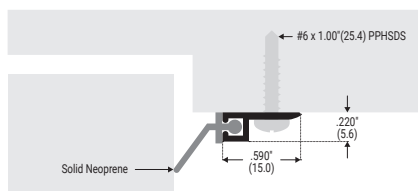
Visible fixing frame seal.
Nylon brush at angle.
Available D finish to order at extra cost.
8305AA* Anodised aluminium £22.30 metre



Adjustable frame seal.
Polypropylene pile with fin.
Adjusting screw, accessed from rear.
Available D finish to order at extra cost.
871AA Anodised aluminium £92.33 metre

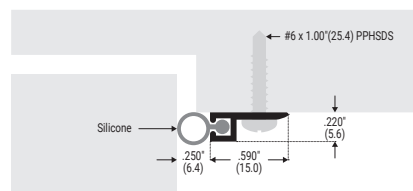
ZERO BUDGET FRAME SEALS

- Sizes:** 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
- Finishes:** Mill aluminium (A), clear anodised silver (AA), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.
- Availability:** Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
- Fire:** Timber doors. 8302AA, 8303AA, 8877AA and 8878AA are assessed for up to 90 minutes integrity performance to BS 476-22: 1987 or BS EN 1634-1:2000. Report 187914 available upon request.



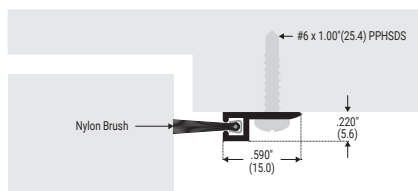
Visible fixing budget frame seal.
Neoprene blade gasket.
Available D finish to order at extra cost.

8302AA Anodised aluminium £17.08 metre



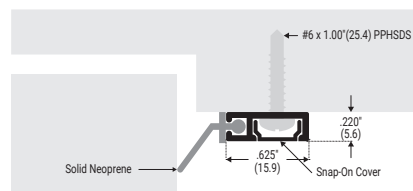
Visible fixing budget frame seal.
Silicone bulb gasket.
Available D finish to order at extra cost.

8303AA Anodised aluminium £17.08 metre



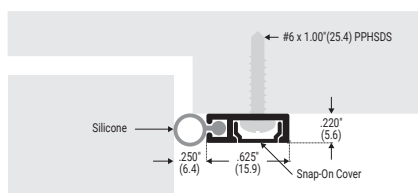
Visible fixing budget frame seal.
Nylon brush.
Available D finish to order at extra cost.

8193AA Anodised aluminium £26.52 metre



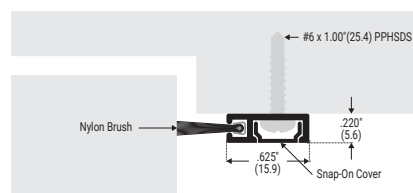
Concealed fixing frame seal.
Neoprene blade gasket.
Budget snap on black cover.

8877AA Anodised aluminium £26.41 metre



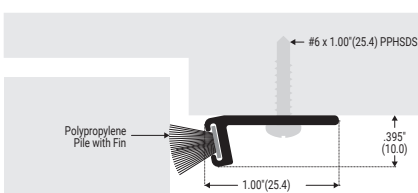
Concealed fixing frame seal.
Silicone bulb gasket.
Budget snap on black cover.

8878AA Anodised aluminium £26.41 metre



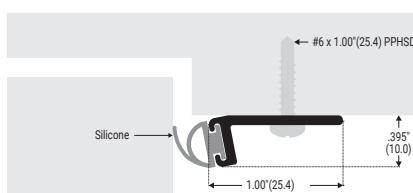
Concealed fixing frame seal.
Nylon brush.
Budget snap on black cover.

8879AA Anodised aluminium £30.74 metre



Visible fixing frame seal.
Polypropylene pile with fin.
Available D finish to order at extra cost.

98A Mill aluminium £28.68 metre



Visible fixing frame seal.
Silicone flipper bulb gasket.
Available D finish to order at extra cost.

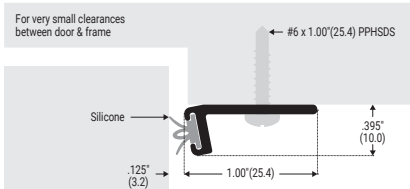
99A* Mill aluminium £36.62 metre

ZERO BUDGET FRAME SEALS

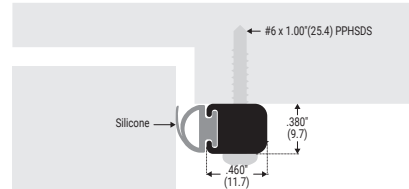
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

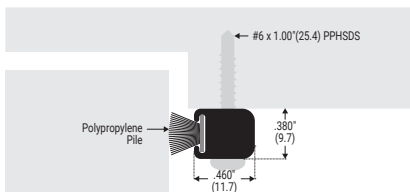
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



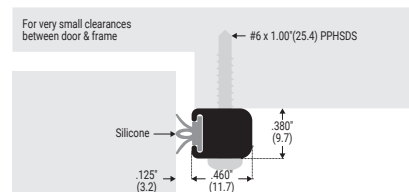
Visible fixing frame seal.
Silicone double blade gasket.
Available D finish to order at extra cost.
100A Mill aluminium £36.62 metre



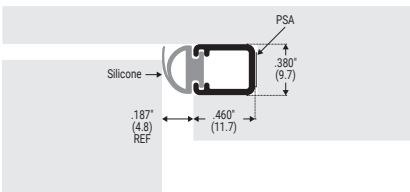
Visible fixing bumper strip seal.
Silicone flipper bulb gasket.
Available D & G finishes to order at extra cost.
31AA* Anodised aluminium £41.10 metre



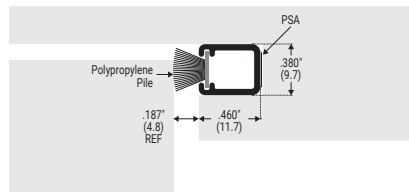
Visible fixing bumper strip seal.
Polypropylene pile with fin.
Available D & G finishes to order at extra cost.
32AA* Anodised aluminium £41.10 metre



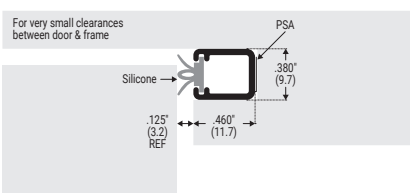
Visible fixing bumper strip seal.
Silicone double blade gasket.
Available D & G finishes to order at extra cost.
33AA* Anodised aluminium £41.10 metre



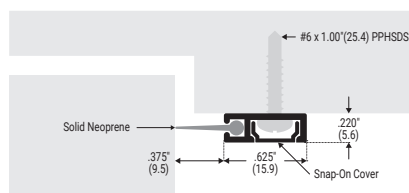
Mortice fixing frame seal, PSA backed.
Silicone flipper bulb gasket.
Available D & G finishes to order at extra cost.
5831AA Anodised aluminium £30.56 metre



Mortice fixing seal, PSA backed.
Polypropylene pile with fin.
Available D & G finishes to order at extra cost.
5832AA* Anodised aluminium £31.40 metre



Mortice fixing seal, PSA backed.
Silicone double blade gasket.
Available D & G finishes to order at extra cost.
5833AA* Anodised aluminium £30.56 metre



Concealed fixing frame seal.
Neoprene blade gasket.
Budget snap on black cover.
8195AA Anodised aluminium £29.69 metre

ZERO 6.4MM LOW FLAT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

Corrosion: Zero flat thresholds have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Low-profile plain grooved threshold.
63mm wide x 6.4mm.

64A Mill aluminium £25.40 metre



Low-profile plain grooved threshold.
76mm wide x 6.4mm.

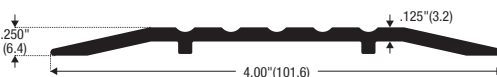
63A Mill aluminium £35.48 metre



Low-profile plain grooved threshold.
102mm wide x 6.4mm.

544A Mill aluminium £38.60 metre ▲

▲ call for bulk pack rate (10 x 3048mm undrilled).

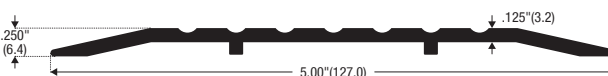


Low-profile plain grooved threshold.
127mm wide x 6.4mm.

545A Mill aluminium £46.35 metre ▲

545D* Dark bronze anodised £125.77 metre

▲ call for bulk pack rate (10 x 3048mm undrilled).



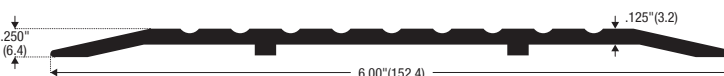
Low-profile plain grooved threshold.
127mm wide x 6.4mm.

545B* Self colour brass £233.91 metre



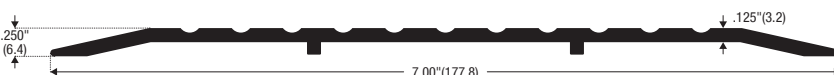
Low-profile plain grooved threshold (undrilled).
152mm wide x 6.4mm.
Supplied NH standard.

546A Mill aluminium £67.71 metre



Low-profile plain grooved threshold (undrilled).
178mm wide x 6.4mm.
Supplied NH standard.

547A Mill aluminium £79.29 metre



Low-profile plain grooved threshold (undrilled).
203mm wide x 6.4mm.
Supplied NH standard.

548A Mill aluminium £103.95 metre



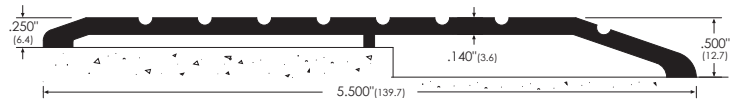
For door seals to be used in conjunction with these thresholds please refer to pages 34-37.

ZERO 6.4MM LOW FLAT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes: Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated.
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

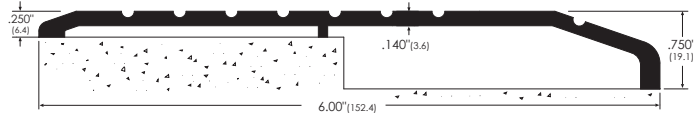
Transition threshold.
 140mm wide, 6.4mm high one side, 12.7mm high other side.
 Supplied NH standard.

102A Mill aluminium £62.75 metre



Transition threshold.
 152mm wide, 6.4mm high one side, 19.1mm high other side.
 Supplied NH standard.

104A Mill aluminium £72.35 metre



Transition threshold.
 178mm wide, 6.4mm high one side, 12.7mm high other side.
 Supplied NH standard.

103A Mill aluminium £76.59 metre



Threshold plate.
 50.8mm wide x 6.4mm high.
 Supplied NH standard.

672A Mill aluminium £40.47 metre



Threshold plate.
 76.2mm wide x 6.4mm high.
 Supplied NH standard.

673A Mill aluminium £58.92 metre



Threshold plate.
 101.6mm wide x 6.4mm high.
 Supplied NH standard.

674A Mill aluminium £79.80 metre



Threshold plate.
 127.0mm wide x 6.4mm high.
 Supplied NH standard.

675A Mill aluminium £95.02 metre



Threshold plate.
 152.4mm wide x 6.4mm high.
 Supplied NH standard.

676A Mill aluminium £114.94 metre



Threshold plate.
 203.2mm wide x 6.4mm high.
 Supplied NH standard.

678A Mill aluminium £158.88 metre



Threshold plate.
 254.0mm wide x 6.4mm high.
 Supplied NH standard.

6710A Mill aluminium £199.27 metre



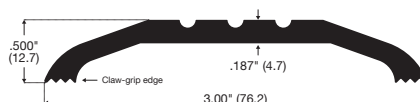
For full range of accessories and other modular thresholds
 please see page 30.

ZERO 12.7MM HIGH FLAT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
 Finishes: Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated.
 Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

Utility plain grooved threshold.
 76mm wide x 12.7mm high.

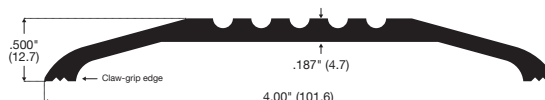
653A Mill aluminium £48.35 metre



Utility plain grooved threshold.
 102mm wide x 12.7mm high.

654A Mill aluminium £54.59 metre ▲
654B* Self colour brass £306.84 metre

▲ call for bulk pack rate (10 x 3048mm undrilled).



Utility smooth top plain threshold (no grooves).
 102mm wide x 12.7mm high.

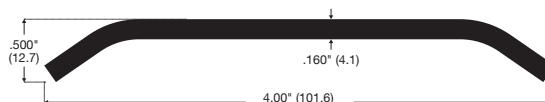
164A Mill aluminium £71.14 metre



Utility smooth top plain threshold (no grooves).
 102mm wide x 12.7mm high.
 "E" abrasive surface is suggested for public access areas.

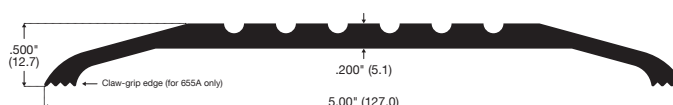
664STST Stainless steel £526.72 metre

For more stainless thresholds please see page 33.



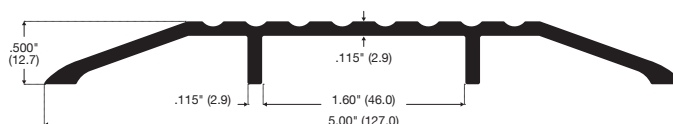
Utility plain grooved threshold.
 127mm wide x 12.7mm high.

655A Mill aluminium £74.14 metre
655B* Self colour brass £422.72 metre



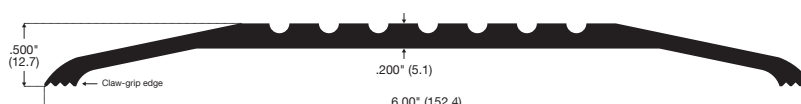
Utility plain grooved threshold (light duty).
 127mm wide x 12.7mm high.

8655A Mill aluminium £58.59 metre



152mm wide x 12.7mm high utility plain grooved threshold
 (undrilled). Supplied NH standard.

656A Mill aluminium £87.65 metre
656B* Self colour brass £550.85 metre



For door seals to be used in conjunction with these thresholds please refer to pages 34-37.

ZERO 12.7MM HIGH FLAT THRESHOLDS

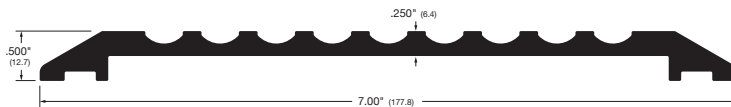
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

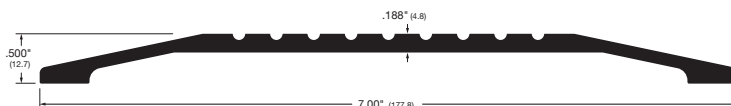
Utility plain grooved threshold (undrilled).
178mm wide x 12.7mm high.
For use with floorsprings in new applications.
Supplied NH standard.

657A Mill aluminium £125.70 metre



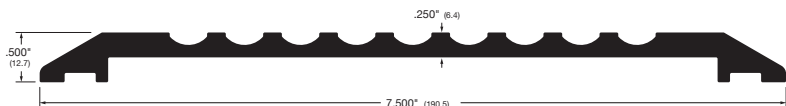
Utility plain grooved threshold (undrilled).
178mm wide x 12.7mm high.
For use with floorsprings.
Supplied NH standard.

6570A Mill aluminium £142.47 metre



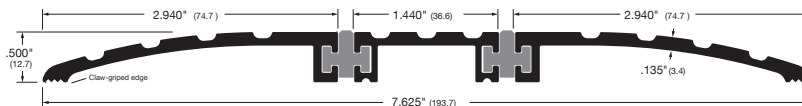
Utility plain grooved threshold (undrilled).
190mm wide x 12.7mm high.
For use with floorsprings in existing applications (undrilled).
Supplied NH standard.

6575A Mill aluminium £142.17 metre



Thermal break threshold with PVC breaks.
194mm wide x 12.7mm high.

8726A* Mill aluminium £154.40 metre



See page 24 for more thermal break thresholds.

WHEELCHAIR SHOWER THRESHOLDS

Designed for use when a shower must be accessible to a wheelchair. The neoprene gasket will keep water in while allowing the wheel to pass over easily.

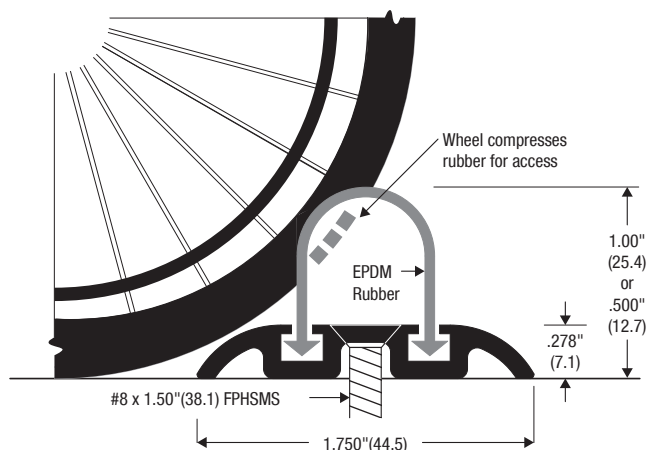
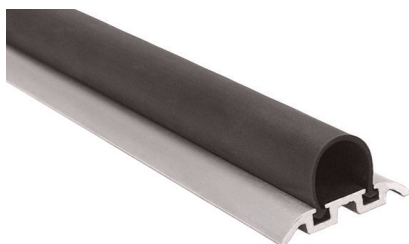
This product is supplied with one piece of neoprene rubber which attaches to the top of the aluminium base after it has been screwed to the floor. Care should be taken if underfloor heating is installed. The aluminium base needs to be bedded on silicone mastic to prevent water seepage underneath.

Wheelchair accessible shower threshold.
44mm wide x 7mm high.

The EPDM rubber gasket is 12.7mm or 25.4mm high overall and will retain water, while allowing wheelchair users to pass over it easily.

8452A Mill aluminium, 25.4mm high £80.10 metre

845253A Mill aluminium, 12.7mm high £80.10 metre



ZERO RABBETED THRESHOLDS

Sizes:	914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes:	Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated. Replacement black flipper gasket 486N available only £7.05 metre.
Availability:	Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
Fire:	564, 566, 568, 265 and 65 thresholds have been assessed as suitable for use on steel fire doors up to 240 minutes integrity. Copy of Report No 326152 Issue 2 available on request (reviewed and revalidated by WF Report No 396330).
Corrosion:	Zero rabbeted thresholds have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Rabbeted threshold with black neoprene seal.

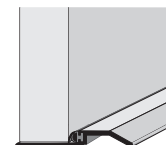
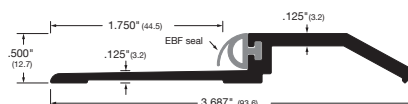
94mm wide x 12.7mm high.

Doc M compliant.

564A	Mill aluminium	£39.52 metre ▲
564B	Self colour brass	£230.41 metre
564D*	Dark bronze anodised	£108.70 metre

▲ call for bulk pack rate (10 x 3048mm undrilled).

This product has been successfully tested to BS EN 1634-3:2004 and is suitable for smoke control doors. Leakage does not exceed 3m³/hour per metre of frame gap at a pressure of 25 Pa. Copy of WF Report No 185149 available upon request.



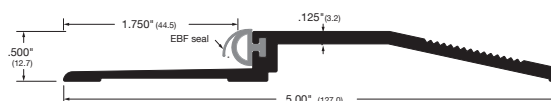
Rabbeted threshold with black neoprene seal.

127mm wide x 12.7mm high.

Doc M compliant.

566A	Mill aluminium	£55.49 metre ▲
566B*	Self colour brass	£236.14 metre

▲ call for bulk pack rate (10 x 3048mm undrilled).



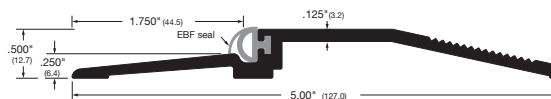
Rabbeted threshold with black neoprene seal.

127mm wide x 12.7mm high.

Inclined surface under door for US ADA.

Doc M compliant.

566A-ADA	Mill aluminium	£71.33 metre
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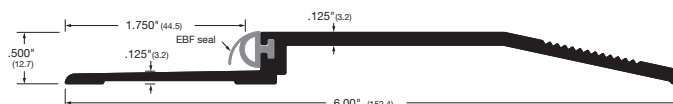


Rabbeted threshold with black neoprene seal.

152mm wide x 12.7mm high.

Doc M Compliant.

568A	Mill aluminium	£86.61 metre
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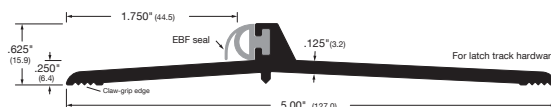


Latchtrack rabbeted threshold with black neoprene seal.

127mm wide x 15.9mm high.

For use with pullman panic bolts.

265A	Mill aluminium	£70.26 metre
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Latchtrack rabbeted threshold with black silicone seal.

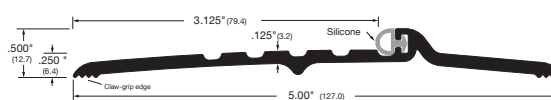
127mm wide x 12.7mm high.

For use with pullman panic bolts.

Doc M compliant.

65A	Mill aluminium	£62.84 metre ▲
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▲ call for bulk pack rate (10 x 3048mm undrilled).

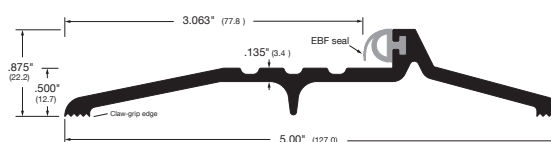


Latchtrack rabbeted threshold with black neoprene seal.

127mm wide x 22mm high.

For use with pullman panic bolts.

560A	Mill aluminium	£77.38 metre
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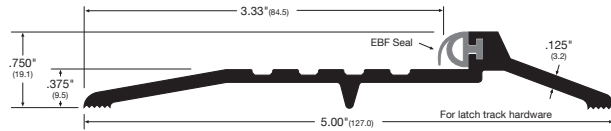


ZERO RABBETED THRESHOLDS

Sizes:	914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes:	Mill aluminium (A), self colour brass/US bronze (B), dark bronze anodised (D), epoxy (E), stainless steel (STST), and full body strength (V3) where indicated. Replacement black flipper gasket 486N available only £7.05 metre.
Availability:	Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
Corrosion:	Zero rabbeted thresholds have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

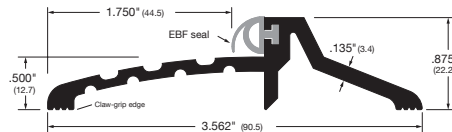
Latchtrack rabbeted threshold with black neoprene seal.
127mm wide x 19.1mm high.
For use with pullman panic bolts.

579A Mill aluminium £77.38 metre
▲ call for bulk pack rate (10 x 3048mm undrilled).



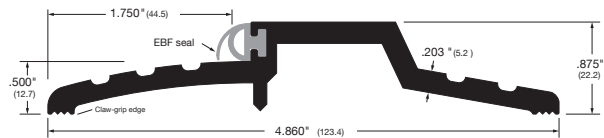
Rabbeted threshold with black neoprene seal.
91mm wide x 22mm high.

563A Mill aluminium £61.51 metre



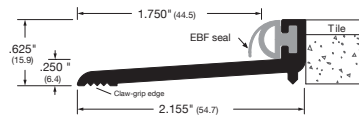
Rabbeted threshold with black neoprene seal.
123mm wide x 22mm high.

565A Mill aluminium £100.57 metre



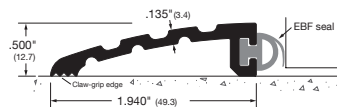
Rabbeted half threshold with black neoprene seal.
55mm wide x 16mm high.

267A Mill aluminium £56.72 metre



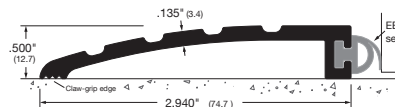
Half threshold with black neoprene seal.
49mm wide x 12.7mm high.

627A Mill aluminium £37.09 metre



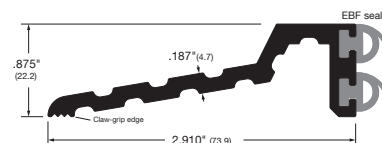
Half threshold with black neoprene seal.
75mm wide x 12.7mm high.

628A Mill aluminium £59.89 metre



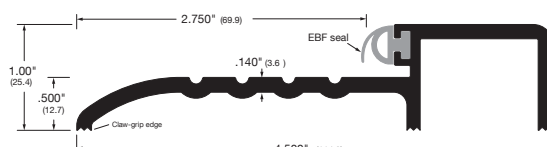
Half threshold with black double neoprene seal.
74mm wide x 22mm high.

524A Mill aluminium £91.47 metre



Bulkhead rabbeted threshold with black neoprene seal.
114mm wide x 25mm high.

561A Mill aluminium £77.98 metre

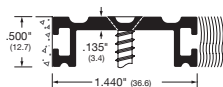


ZERO THERMAL BREAK THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
 Finishes: Mill aluminium (A), grey PVC. PVC-BREAK available to order separately, £11.64 metre, standard colour grey but black available to order.
 Availability: To special order (3-5 weeks) depending on quantity. Unfinished oak insert discontinued in 2017.

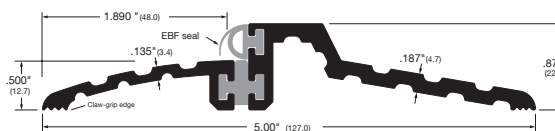
Threshold connector.
 37mm wide x 12.7mm high.

522A Mill aluminium £36.30 metre



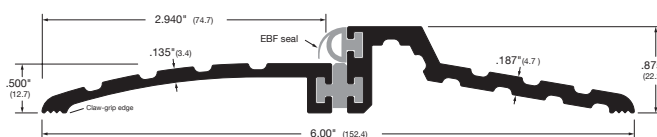
Thermal break threshold with PVC break and neoprene gasket.
 127mm wide x 22mm high.

525A* Mill aluminium £132.93 metre



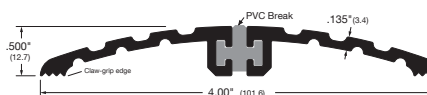
Thermal break threshold with PVC break and neoprene gasket.
 152mm wide x 22mm high.

526A* Mill aluminium £146.25 metre



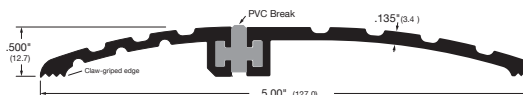
Thermal break threshold with PVC break.
 102mm wide x 12.7mm high.

624A Mill aluminium £71.97 metre



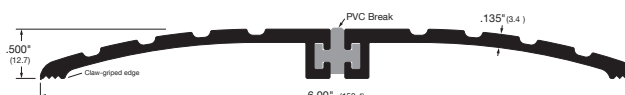
Offset thermal break threshold with PVC break.
 127mm wide x 12.7mm high.

625A* Mill aluminium £95.79 metre



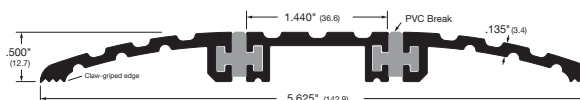
Thermal break threshold with PVC break.
 152mm wide x 12.7mm high.

626A* Mill aluminium £109.05 metre



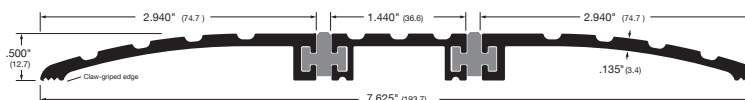
Thermal break threshold with PVC breaks.
 143mm wide x 12.7mm high.

8724A* Mill aluminium £127.64 metre



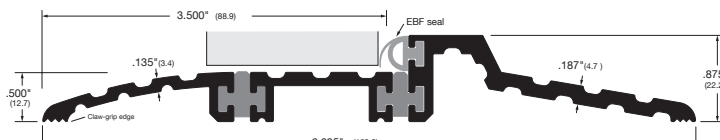
Thermal break threshold with PVC breaks.
 194mm wide x 12.7mm high.

8726A* Mill aluminium £154.40 metre



Thermal break threshold with PVC breaks and neoprene gasket.
 168mm wide x 22mm high.

8729A* Mill aluminium £161.11 metre



ZERO ANTI-SLIP TESTED THRESHOLDS

With such a vast array of thresholds in the Zero range, we have often been asked over the years which is the best non-slip threshold we offer. In 2017 we undertook some independent laboratory anti-slip testing to BS 7976-2:2002 Pendulum Testers Method of Operation which measures the dynamic coefficient of friction using pendulum floor testing. A total of eight thresholds were tested in both dry and wet conditions with two different sliders representing pedestrians barefooted and shod with footwear, in accordance with UKSRG (UK Slip Resistance Group) and HSE guidelines. These thresholds were 6710A, 6710A-E, 548A, 548A-E, 3676A, 3676A-E, 6575A and 232A/236A; these are representative of our wide range of Modular Thresholds, 6.4mm Low Flat Thresholds and Traction Tread™ Thresholds which have various infills to aid grip. Every Zero threshold tested received a 'low risk' (lowest possible) classification (36+ PTV) in dry conditions, with the majority of those thresholds tested also receiving this classification in wet conditions.

Whilst there is no express requirement to achieve a 36 Pendulum Test Value (PTV) or greater to BS 7976-2 in the conditions of end use, it is a clear requirement of UK Law that floor surfaces must not present risks to health. In many legal cases a 'low risk' classification (36+ PTV) has been a key point of interest in determining whether a surface is safe or slippery. Test evidence in regards to the slip rating of thresholds is regularly asked for in public transport applications. The Workplace (Health, Safety and Welfare) Regulations 1992 state that floors shall be suitable for their purpose, and shall not be slippery so as to expose a person to a risk to their health and safety.

	FOOTWEAR TEST - METAL SLIDER #96/4S			
	DRY	WET	DRY	WET
548A-E	76 PTV	71 PTV	Low Slip Risk	Low Slip Risk
6710A-E	74 PTV	72 PTV	Low Slip Risk	Low Slip Risk
3676A-E	82 PTV	74 PTV	Low Slip Risk	Low Slip Risk

	BAREFOOT TEST - METAL SLIDER #55/TRL			
	DRY	WET	DRY	WET
548A-E	92 PTV	84 PTV	Low Slip Risk	Low Slip Risk
6710A-E	82 PTV	81 PTV	Low Slip Risk	Low Slip Risk
3676A-E	96 PTV	89 PTV	Low Slip Risk	Low Slip Risk

SLIP POTENTIAL CLASSIFICATION, BASED ON PENDULUM TEST VALUES (PTV)	
High slip potential	0-24 PTV
Moderate slip potential	25-35 PTV
Low slip potential	36+ PTV

PTV = Pendulum Test Value.

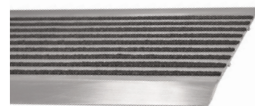
TEST RESULTS

Whilst there is no worldwide recognised 'definitive slip risk test', BS 7976 (The Pendulum) is the most widely recognised in the UK and it is the HSE's preferred method of slipperiness assessment. Our tests showed that Zero thresholds 548A-E, 6710A-E and 3676A-E all with non-slip epoxy abrasive particles bonded into the grooves performed best, particularly in wet situations. The results for these three thresholds are shown in the table above, and the Test Report confirms that the test results on each of the three profiles should be considered an accurate representation of the performance of that particular profile, such that they should apply to all identical profiles regardless of product length, width, name or reference. Had specimens of the same profile been supplied in larger/varying sizes, tests would still have been conducted on the same contact patch, producing the same results. A copy of Test Report Ref 1931ZER0040517 is available on request. On this basis, we recommend the range of thresholds on this page for public areas where there are risks of personal injury from slipping. The suffix -E after the product code denotes epoxy abrasive particles bonded into the grooves which is an extremely durable surface and provides a high degree of safety against accidental slips.

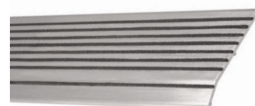
SIZES & AVAILABILITY

It is best to order this product to suit site sizes as it is difficult to cut or "work" on site because of the hardness of the abrasive epoxy, so all thresholds on this page will be manufactured to special order. These thresholds are all supplied undrilled (NH no holes) to offer more options for site installation. Maximum length 3048mm. Thresholds are mill aluminium silver finish and abrasive epoxy inserts are black. If luminescent abrasive epoxy is required, please suffix the reference -EL (same price).

REF	DESCRIPTION	PRICE	UNIT
PLAIN GROOVED ALUMINIUM THRESHOLDS WITH BONDED EPOXY INFILL			
64A-E*	63mm wide x 6.4mm high with bonded epoxy infill	£195.68	metre
63A-E*	76mm wide x 6.4mm high with bonded epoxy infill	£241.96	metre
544A-E*	102mm wide x 6.4mm high with bonded epoxy infill	£317.67	metre
545A-E*	127mm wide x 6.4mm high with bonded epoxy infill	£393.70	metre
546A-E*	152mm wide x 6.4mm high with bonded epoxy infill	£479.38	metre
547A-E*	178mm wide x 6.4mm high with bonded epoxy infill	£559.78	metre
548A-E*	203mm wide x 6.4mm high with bonded epoxy infill	£656.31	metre
PLAIN GROOVED ALUMINIUM TRANSITION THRESHOLDS WITH BONDED EPOXY INFILL			
102A-E*	140mm wide x 6.4mm high with bonded epoxy infill	£467.90	metre
104A-E*	152mm wide x 6.4mm high with bonded epoxy infill	£481.27	metre
103A-E*	178mm wide x 6.4mm high with bonded epoxy infill	£550.56	metre
PLAIN GROOVED ALUMINIUM MODULAR THRESHOLDS WITH BONDED EPOXY INFILL			
672A-E*	51mm wide x 6.4mm high with bonded epoxy infill	£189.91	metre
673A-E*	76mm wide x 6.4mm high with bonded epoxy infill	£210.28	metre
674A-E*	102mm wide x 6.4mm high with bonded epoxy infill	£281.77	metre
675A-E*	127mm wide x 6.4mm high with bonded epoxy infill	£346.96	metre
676A-E*	152mm wide x 6.4mm high with bonded epoxy infill	£417.37	metre
678A-E*	201mm wide x 6.4mm high with bonded epoxy infill	£562.72	metre
6710A-E*	254mm wide x 6.4mm high with bonded epoxy infill	£704.19	metre
PLAIN GROOVED ALUMINIUM BUTT THRESHOLDS WITH BONDED EPOXY INFILL			
1673A-E*	76mm wide x 12.7mm high with bonded epoxy infill	£281.02	metre
1674A-E*	102mm wide x 12.7mm high with bonded epoxy infill	£381.79	metre
1675A-E*	127mm wide x 12.7mm high with bonded epoxy infill	£464.87	metre
TRACTION TREAD™ ALUMINIUM THRESHOLDS WITH BONDED EPOXY INFILL			
3672A-E*	51mm wide x 6.4mm high with bonded epoxy infill	£189.91	metre
3673A-E*	76mm wide x 6.4mm high with bonded epoxy infill	£210.28	metre
3674A-E*	102mm wide x 6.4mm high with bonded epoxy infill	£281.77	metre
3675A-E*	127mm wide x 6.4mm high with bonded epoxy infill	£346.96	metre
3676A-E*	152mm wide x 6.4mm high with bonded epoxy infill	£417.37	metre
TRACTION TREAD™ ALUMINIUM STAIR NOSINGS WITH BONDED EPOXY INFILL			
2673A-E*	76mm wide x 6.4mm high with bonded epoxy infill	£223.19	metre
2676A-E*	152mm wide x 6.4mm high with bonded epoxy infill	£430.21	metre



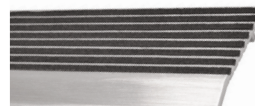
Dimensioned product drawings on page 18



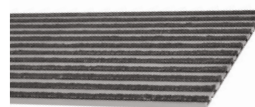
Dimensioned product drawings on page 19



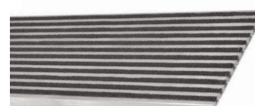
Dimensioned product drawings on page 30



Dimensioned product drawings on page 28



Dimensioned product drawings on page 31



Dimensioned product drawings on page 31

ZERO TRANSITION & BUTT THRESHOLDS

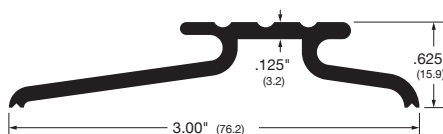
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), and self colour brass/US bronze (B) where indicated.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

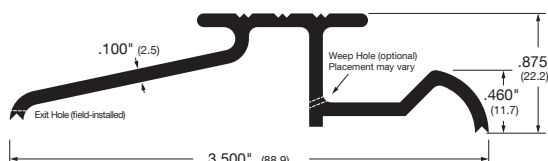
Threshold for in-swing or out-swing doors.
76mm wide x 16mm high.

70B* Self colour brass £268.92 metre



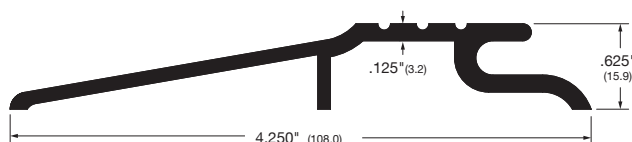
Threshold for in-swing doors.
89mm wide x 22mm high.

76B* Self colour brass £364.39 metre



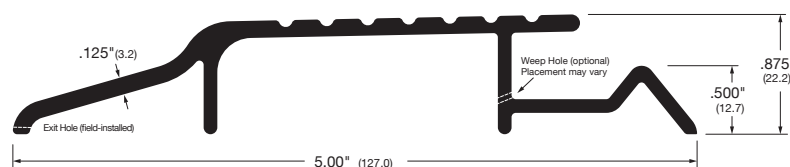
Threshold for in-swing doors
108mm wide x 16mm high.

80B* Self colour brass £364.24 metre



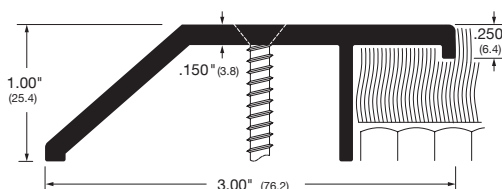
Threshold for in-swing doors.
127mm wide x 22mm high.

175A Mill aluminium £70.89 metre
175B* Self colour brass £434.21 metre



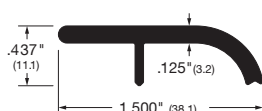
Carpet divider threshold.
76mm wide x 25mm high.

643A Mill aluminium £61.04 metre



Butt threshold.
38mm wide x 11mm high.

304A Mill aluminium £32.90 metre



ZERO TRANSITION & BUTT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), and self colour brass/US bronze (B) where indicated.

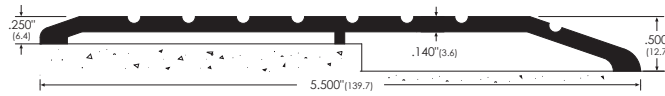
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

Transition threshold.

140mm wide, 6.4mm high one side, 12.7mm high other side.

Supplied NH standard.

102A Mill aluminium £62.75 metre

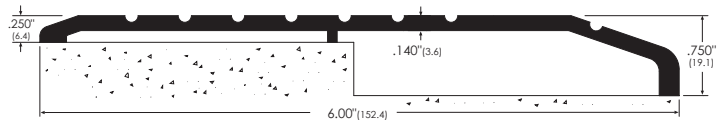


Transition threshold.

152mm wide, 6.4mm high one side, 19.1mm high other side.

Supplied NH standard.

104A Mill aluminium £72.35 metre

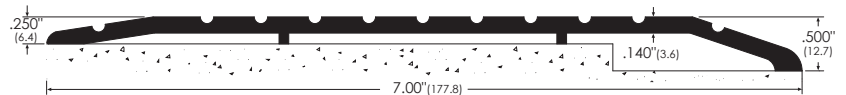


Transition threshold.

178mm wide, 6.4mm high one side, 12.7mm high other side.

Supplied NH standard.

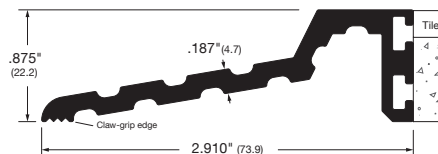
103A Mill aluminium £76.59 metre



Butt threshold.

74mm wide x 22mm high.

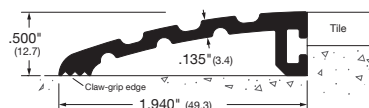
523A* Mill aluminium £79.79 metre



Butt threshold.

49mm wide x 12.7mm high.

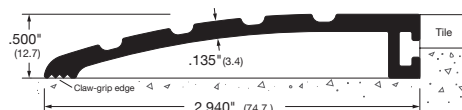
622A Mill aluminium £36.86 metre



Butt threshold.

75mm wide x 12.7mm high.

623A Mill aluminium £51.61 metre

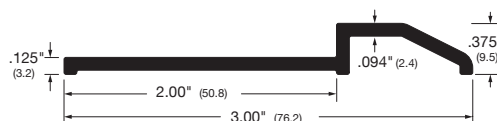


ZERO TRANSITION & BUTT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
 Finishes: Mill aluminium (A), and self colour brass/US bronze (B) where indicated.
 Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.

Butt threshold.
 76mm wide x 9.5mm high.
 Supplied NH standard.

663A Mill aluminium £47.73 metre



Butt threshold.
 64mm wide x 6.4mm high.

1545A Mill aluminium £40.23 metre
1545B* Self colour brass £195.41 metre



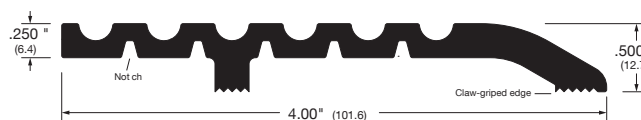
Butt threshold.
 76mm wide x 12.7mm high.

1673A* Mill aluminium £75.12 metre



Butt threshold.
 102mm wide x 12.7mm high.

1674A Mill aluminium £106.01 metre



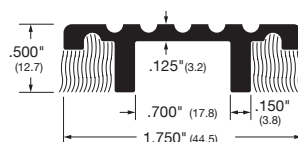
Butt threshold.
 127mm wide x 12.7mm high.

1675A Mill aluminium £122.36 metre



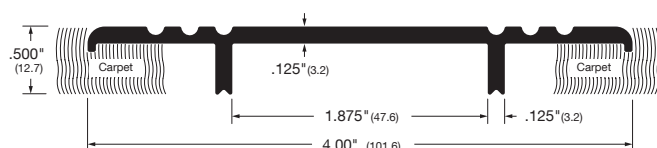
Carpet divider threshold.
 45mm wide x 12.7mm high.

1682A* Mill aluminium £37.56 metre
1682B* Self colour brass £186.50 metre



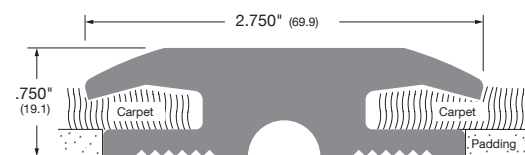
Carpet divider threshold.
 102mm wide x 12.7mm high.

1684A Mill aluminium £78.77 metre



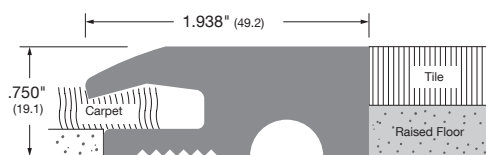
ZERO RUBBER CARPET DIVIDERS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes: Rubber (R).
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity. NH = No Holes.



Traction Tread™ rubber carpet divider threshold.
 70mm wide x 19mm high.
 Supplied NH standard.

1685R* Black rubber £126.35 metre

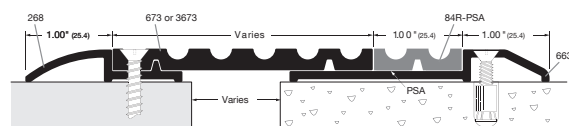


Traction Tread™ rubber carpet divider threshold.
 46mm wide x 19mm high.
 Supplied NH standard.

1686R* Black rubber £118.19 metre

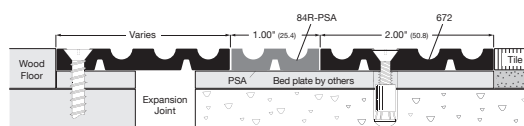
ZERO EXPANSION JOINT THRESHOLDS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes: Mill aluminium (A), rubber (R).
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



SERIES 671

Surface mounted floor covers for 25.4mm (1.00") expansion joints.



SERIES 670

Recessed mounted floor covers for 25.4mm (1.00") expansion joints.

COMPONENTS SHOWN ABOVE - OTHER FLAT PLATE SIZES AVAILABLE

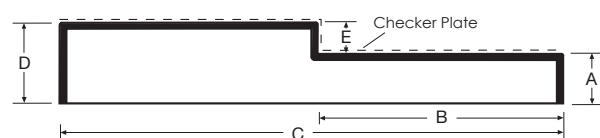
REF	DESCRIPTION	PRICE	UNIT
84R	25mm wide x 6mm high Traction Tread™ rubber expansion strip	£31.41	metre
268A	46mm wide x 9.5mm high aluminium threshold rest	£25.51	metre
663A	76mm wide x 9.5mm high aluminium butt threshold	£47.73	metre
672A	51mm wide x 6.4mm high aluminium threshold plate	£40.47	metre
673A	76mm wide x 6.4mm high aluminium threshold plate	£58.92	metre
3673A*	76mm wide x 6.4mm high aluminium traction tread plate, rubber inserts	£105.73	metre

Please refer to page 30 for plates wider than 672A & 673A (674A, 675A, 676A, 678A & 6710A) and page 31 for plates wider than 3673A (3674A, 3675A, & 3676A).

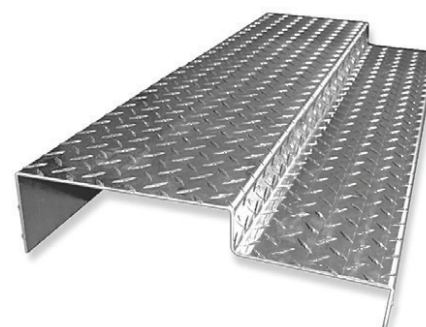
CHECKER PLATE BULKHEAD THRESHOLDS

We now offer custom made checker plate bulkhead thresholds to reduce the risk of slipping. These are also known as diamond plate, chequer plate or tread plate thresholds. They have a regular pattern of raised diamonds or lines on the surface, and are made of aluminium, mild steel or stainless steel. Our standard thickness is 3mm although other thicknesses are available. Since these bulkhead thresholds are made to custom order, please advise dimensions A, B, C, D and E when ordering. This plate may also be supplied as square or rectangular flat plates for door kicking plates, mid-rail plates and crash plates.

REF	DESCRIPTION	PRICE	UNIT
669 DP-A*	3mm thick aluminium five bar tread plate	£ call	each
669 DP-S*	3mm thick mild steel single bar tread plate	£ call	each
669 DP-STST*	3mm thick stainless steel single bar tread plate	£ call	each



Custom Order
 Specify dimensions
 A, B, C, D, E
 (Minimum 45mm for dimension E)



ZERO MODULAR THRESHOLDS

With the Zero range of modular thresholds you can specify combinations of products to suit specific door openings. Flat plates are manufactured from 6.4mm thick aluminium and are available 51mm, 76mm, 102mm, 127mm, 152mm, 203mm and 254mm wide. Threshold plates are grooved on top to provide a non-slip surface. The 268A or 68A threshold rests are placed either side of the threshold to avoid a trip hazard, and give a finished plate height of 9.5mm and 12.7mm respectively. The threshold plates are notched on the underside and can be linked together in different combinations to achieve the desired overall width using the 469A or 269A assembly connectors. (469A with 268A and 269A with 68A).

Threshold plates are supplied open grooved as standard. They can be ordered with non-slip epoxy abrasive particles bonded into the grooves.

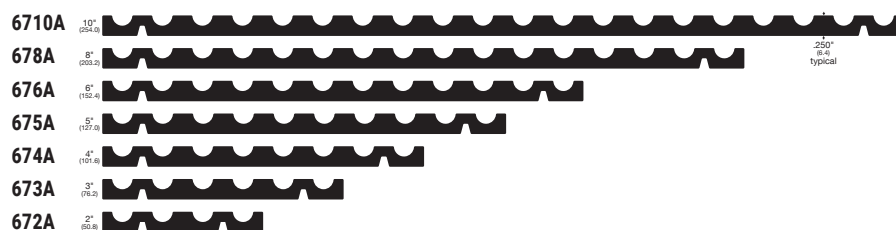
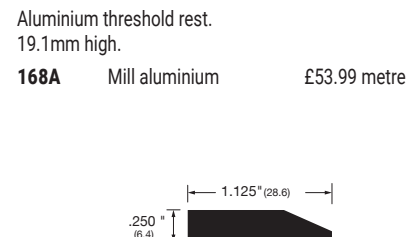
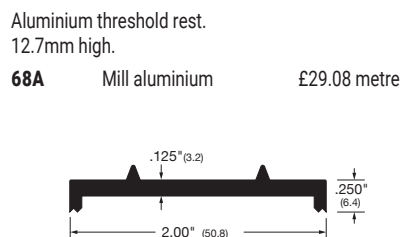
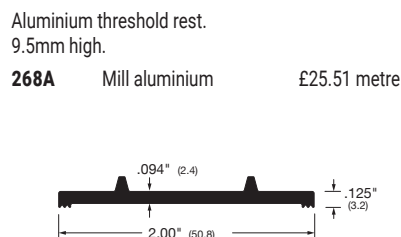
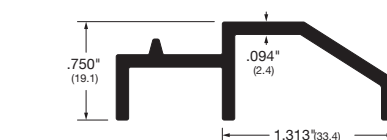
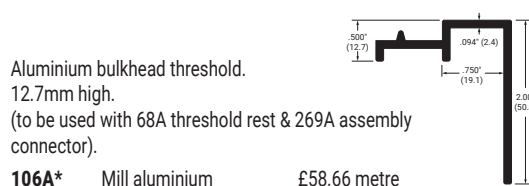
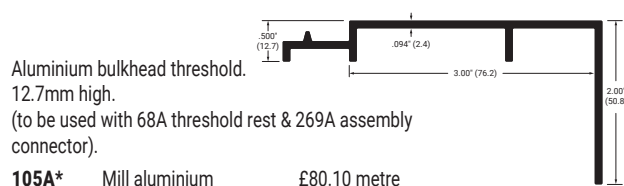
To order, add -E after the product code.
Example 672A-E.

Threshold plates may also be used with Traction Tread shown on page 31.

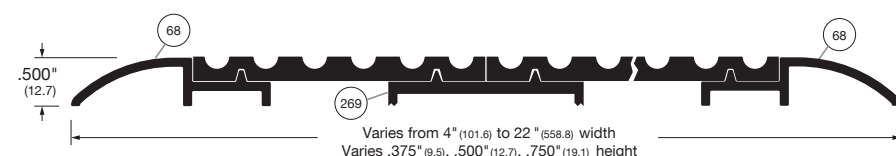
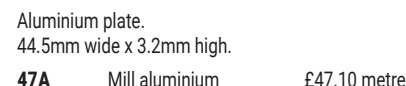
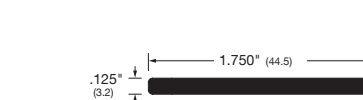
Plates are supplied undrilled (NH) as standard, except 47A and 905A which are drilled as standard.

ALUMINIUM PLATE WIDTH	STANDARD PLATE REF	METRE PRICE	EPOXY PLATE REF	METRE PRICE
51MM WIDE	672A	£40.47	672A-E*	£189.91
76MM WIDE	673A	£58.92	673A-E*	£210.28
102MM WIDE	674A	£79.80	674A-E*	£281.77
127MM WIDE	675A	£95.02	675A-E*	£346.96
152MM WIDE	676A	£114.94	676A-E*	£417.37
203MM WIDE	678A	£158.88	678A-E*	£562.72
254MM WIDE	6710A	£199.27	6710A-E*	£704.19

Standard lengths: 914mm, 1219mm, 1829mm, 2134mm and 3048mm



All 6.4mm high.



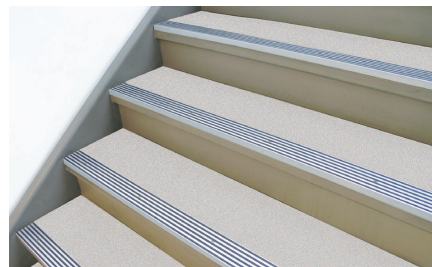
ZERO TRACTION TREAD™ THRESHOLDS

Traction Tread™ thresholds and stair nosings are available with formulated rubber inserts as standard, or with non-slip epoxy abrasive particles bonded into the grooves. The treads are coloured black and provide a detectable warning for stairs and ramps. Also available with photo-luminescent tread. Plates are supplied undrilled as standard. Standard lengths: 914mm (3ft), 1219mm (4ft), 1829mm (6ft), 2134mm (7ft), 3048mm (10ft). Other sizes available to order, maximum 3048mm.

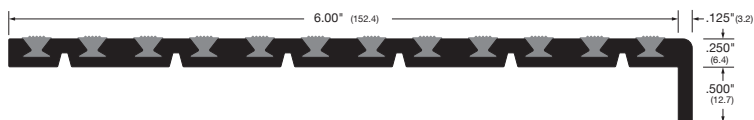
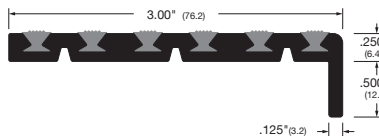
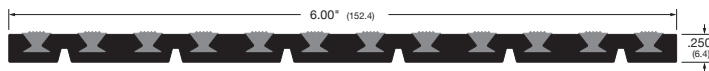
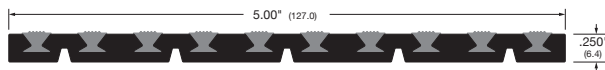
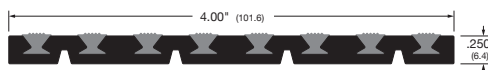
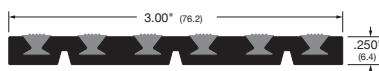
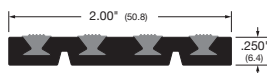
RUBBER TRACTION TREAD™: Attractive, smooth, tough rubber inserts that are flush with the aluminium surface for interior applications. The aluminium/rubber combination is easy to cut and drill on site. It offers superior non-slip traction with great longevity. For Rubber Traction Tread™ simply use the product references below.

ABRASIVE TRACTION TREAD™: The ultimate safety surface. This extremely durable surface provides a high degree of safety for exterior applications and is ideal for schools, hospitals and industrial buildings. The epoxy abrasive particle mix is bonded to the aluminium base. For Epoxy Abrasive Traction Tread™ add -E after the product reference. Example 3673A-E. Please advise exact size when ordering as this product cannot be "worked" on site.

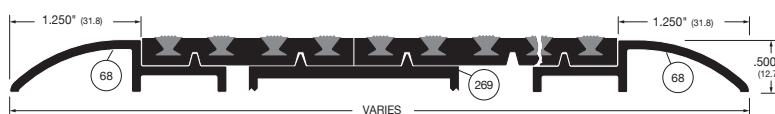
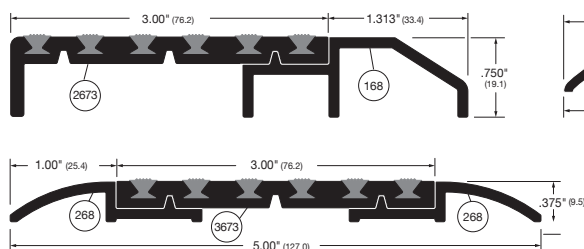
GLOWTRACTION TREAD™: Rubber traction tread™ integrated with photo-luminescent tread 25mm wide in the outer two grooves along stair edges. Add -L after the product reference. Example 3673A-L.



REF	DESCRIPTION	PRICE	UNIT
ALUMINIUM TRACTION TREAD PLATE 51MM WIDE X 6.4MM HIGH			
3672A*	with rubber inserts	£71.26	metre
3672A-E*	with abrasive inserts	£189.91	metre
3672A-L*	with 2 grooves of photo-luminescent tread	£218.41	metre
ALUMINIUM TRACTION TREAD PLATE 76MM WIDE X 6.4MM HIGH			
3673A*	with rubber inserts	£105.73	metre
3673A-E*	with abrasive inserts	£210.28	metre
3673A-L*	with 2 grooves of photo-luminescent tread	£258.28	metre
ALUMINIUM TRACTION TREAD PLATE 102MM WIDE X 6.4MM HIGH			
3674A*	with rubber inserts	£141.48	metre
3674A-E*	with abrasive inserts	£281.77	metre
3674A-L*	with 2 grooves of photo-luminescent tread	£344.37	metre
ALUMINIUM TRACTION TREAD PLATE 127MM WIDE X 6.4MM HIGH			
3675A*	with rubber inserts	£173.07	metre
3675A-E*	with abrasive inserts	£346.96	metre
3675A-L*	with 2 grooves of photo-luminescent tread	£430.52	metre
ALUMINIUM TRACTION TREAD PLATE 152MM WIDE X 6.4MM HIGH			
3676A*	with rubber inserts	£208.57	metre
3676A-E*	with abrasive inserts	£417.37	metre
3676A-L*	with 2 grooves of photo-luminescent tread	£520.59	metre
ALUMINIUM TRACTION TREAD STAIR NOSING 76MM WIDE X 6.4MM HIGH			
2673A*	with rubber inserts	£129.73	metre
2673A-E*	with abrasive inserts	£223.19	metre
2673A-L*	with 2 grooves of photo-luminescent tread	£262.29	metre
ALUMINIUM TRACTION TREAD STAIR NOSING 152MM WIDE X 6.4MM HIGH			
2676A*	with rubber inserts	£244.42	metre
2676A-E*	with abrasive inserts	£430.21	metre
2676A-L*	with 2 grooves of photo-luminescent tread	£496.02	metre



EXAMPLES OF THRESHOLD ASSEMBLIES

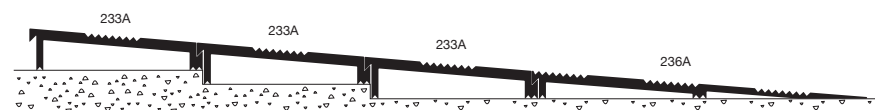


ZERO MODULAR RAMPS

The 230 Series of modular ramps are perfect for overcoming the problems of differences in finished floor levels. They are manufactured from mill aluminium with a grooved non-slip surface and are available in standard lengths of 914mm, 1219mm, 1829mm, 2134mm and 3048mm. Other sizes available to order, maximum 3048mm. All these ramps are supplied undrilled (NH) as standard.

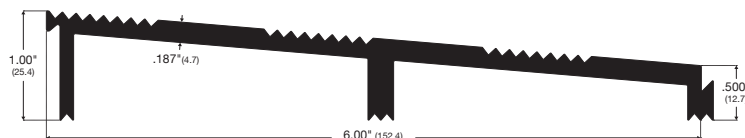
TYPICAL INSTALLATION

The 235A 76mm wide ramp and 236A 152mm wide ramp may be used independently or in combination with the 232A, 233A, 234A, 237A and 238A inter-linking modular components. All sections may be cut down and notched easily on site to suit specific requirements.



Aluminium ramp.
152mm wide.
12.7mm rise from 12.7 - 25.4mm.

232A Mill aluminium £132.21 metre



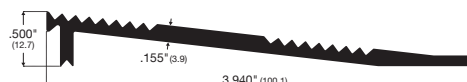
Aluminium ramp.
152mm wide.
12.7mm rise from 0 - 12.7mm.

236A Mill aluminium £72.40 metre



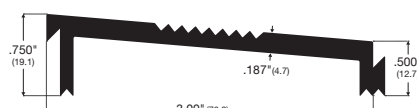
Aluminium ramp.
100mm wide.
12.7mm rise from 0 - 12.7mm.

2361AA Anodised aluminium £62.44 metre



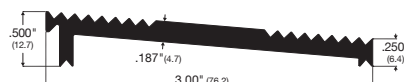
Aluminium ramp.
76mm wide.
6.4mm rise from 12.7 - 19.1mm.

233A Mill aluminium £54.68 metre



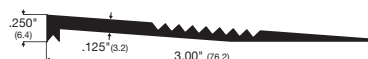
Aluminium ramp.
76mm wide.
6.3mm rise from 6.4 - 12.7mm.

234A Mill aluminium £54.68 metre



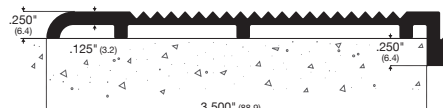
Aluminium ramp.
76mm wide.
6.4mm rise from 0 - 6.4mm.

235A Mill aluminium £54.68 metre



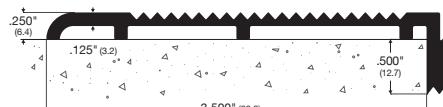
Aluminium threshold.
89mm wide.
6.4mm high.

237A Mill aluminium £90.13 metre



Aluminium threshold.
89mm wide.
6.4mm high.

238A Mill aluminium £90.13 metre



ALSO SEE RUBBER RAMP ON PAGE 33



ZERO V3 FULL BODY STRENGTH THRESHOLDS

Zero thresholds are renowned for being heavy duty and specified widely because they pass the test of time and weight. The heavier gauge material in our thresholds allows you to drill and screw right through into concrete whereas lighter gauge thresholds can buckle and often loosen because screws cannot be tightened fully.

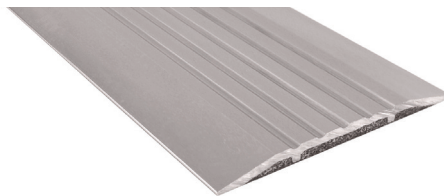
Taking this requirement for heavy loadings a step further, Zero has developed an aluminium composite filler containing aluminium oxide and silicon carbide which can be used to fill the void beneath the threshold. This gives added strength to the threshold. Ideal applications include heavy commercial traffic in warehouses, manufacturing buildings, schools, cafeterias, car dealerships, hospitals and industrial buildings. V3 full body strength is available to special order only and can be supplied with all Zero thresholds, but we list the most popular patterns below. To order, add -V3 after the product code. Example 544A-V3. Supplied as standard undrilled with no holes (NH).

ZERO 6.4MM LOW FLAT THRESHOLDS WITH V3 FULL BODY STRENGTH INFILL			
REF	DESCRIPTION	PRICE	UNIT
544A-V3*	102mm wide x 6.4mm high with V3 full body strength infill	£426.97	metre
545A-V3*	127mm wide x 6.4mm high with V3 full body strength infill	£530.31	metre
546A-V3*	152mm wide x 6.4mm high with V3 full body strength infill	£643.31	metre
547A-V3*	178mm wide x 6.4mm high with V3 full body strength infill	£751.01	metre

Dimensional product drawings on page 18

ZERO 12.7MM HIGH FLAT THRESHOLDS WITH V3 FULL BODY STRENGTH INFILL			
REF	DESCRIPTION	PRICE	UNIT
654A-V3*	102mm wide x 12.7mm high with V3 full body strength infill	£453.58	metre
655A-V3*	127mm wide x 12.7mm high with V3 full body strength infill	£562.17	metre
656A-V3*	152mm wide x 12.7mm high with V3 full body strength infill	£582.17	metre
657A-V3*	178mm wide x 12.7mm high with V3 full body strength infill	£819.41	metre

Dimensional product drawings on pages 20-21



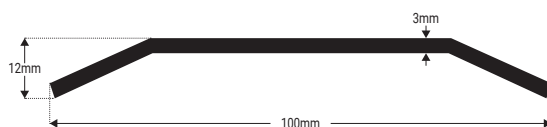
ZERO STAINLESS STEEL THRESHOLDS

Aluminium thresholds are generally suitable for use on external doors. However in particularly harsh environments it may be decided to use stainless steel thresholds. These are manufactured from 3mm thick Grade 304 stainless steel, and available in three patterns. Lengths: 1000mm and 2100mm drilled for CSK screws.

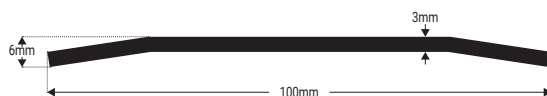
FIRE: These three stainless steel thresholds have been assessed by Exova Warringtonfire for use on previously fire tested (or assessed by Exova Warringtonfire or Chiltern International Fire) insulated and uninsulated steel-based doorsets which have achieved up to 240 minutes integrity, and where appropriate insulation, in accordance with BS EN 1634-1:2014, without detracting from the overall performance of the doorset. The doorset may be of single-leaf or double-leaf configuration. Copy of WF Assessment Report No 387313 Issue 5 available on request.

CAUTION: These are not grooved and may become slippery in wet conditions.

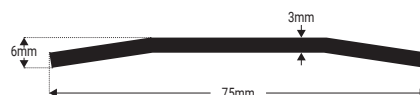
Z654ST 100MM WIDE X 12MM HIGH STAINLESS STEEL THRESHOLD			
REF	DESCRIPTION	PRICE	UNIT
Z654ST-1000	1000mm long, grained finish, drilled and csk	£104.16	each
Z654ST-2000	2100mm long, grained finish, drilled and csk	£227.78	each



Z544ST 100MM WIDE X 6MM HIGH STAINLESS STEEL THRESHOLD			
REF	DESCRIPTION	PRICE	UNIT
Z544ST-1000	1000mm long, grained finish, drilled and csk	£108.39	each
Z544ST-2000	2100mm long, grained finish, drilled and csk	£240.07	each



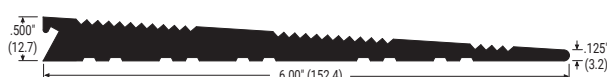
Z63ST 75MM WIDE X 6MM HIGH STAINLESS STEEL THRESHOLD			
REF	DESCRIPTION	PRICE	UNIT
Z63ST-1000	1000mm long, grained finish, drilled and csk	£97.29	each
Z63ST-2000	2100mm long, grained finish, drilled and csk	£213.90	each



ZERO RUBBER RAMPS

Zero flexible rubber ramp thresholds are ideal for uneven floor surfaces and provide non-slip surfaces for building entrances. They can be easily cut on site with a knife or saw. Available sizes 1000mm and 2000mm. Supplied undrilled (NH) as standard.

259R 152MM WIDE X 12.7MM HIGH RUBBER RAMP - 12.7MM RISE FROM 0 - 12.7MM			
REF	DESCRIPTION	PRICE	UNIT
259R	152mm wide x 12.7mm high rubber ramp, black	£147.02	metre

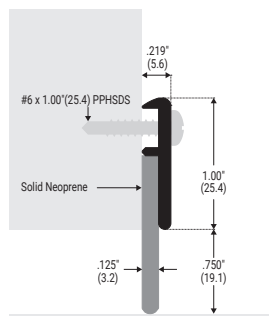


ZERO SILL SWEEPS

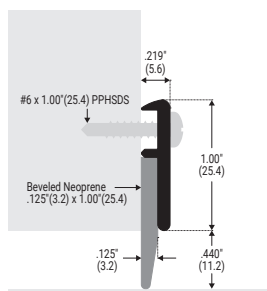
Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

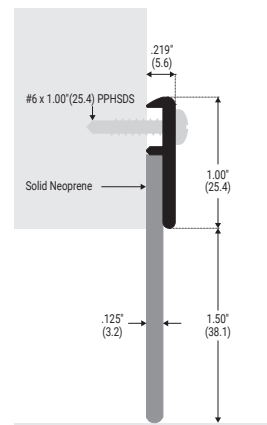
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



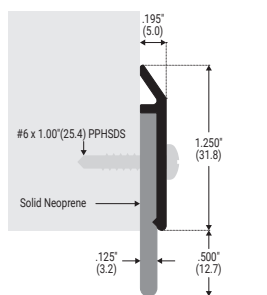
Standard sill sweep.
Solid neoprene gasket.
Available B, D & G finishes to order at extra cost.
339AA Anodised aluminium £39.07 metre



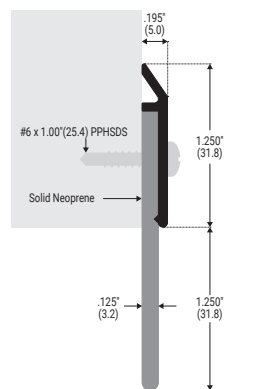
Bevelled sill sweep.
Solid neoprene gasket.
Available B, D & G finishes to order at extra cost.
329AA Anodised aluminium £35.35 metre



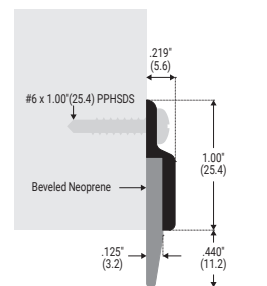
Extended sill sweep.
Solid neoprene gasket.
Available B, D & G finishes to order at extra cost.
339WAA Anodised aluminium £53.43 metre



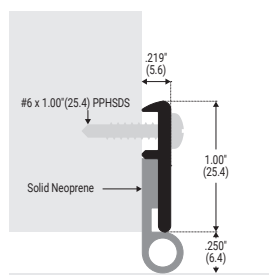
Standard sill sweep.
Solid neoprene gasket.
Available D finish to order at extra cost.
39A Mill aluminium £34.17 metre



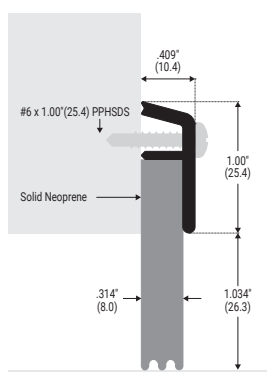
Extended sill sweep.
Solid neoprene gasket.
Available D finish to order at extra cost.
39WA Mill aluminium £46.72 metre



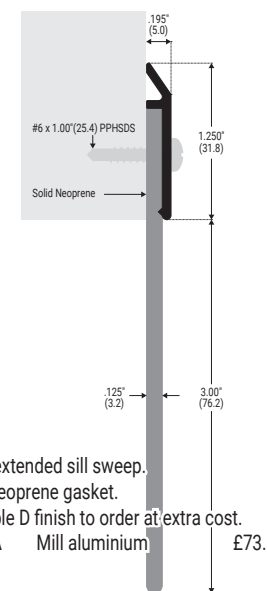
Bevelled sill sweep.
Solid neoprene gasket.
Available D finish to order at extra cost.
50MA* Mill aluminium £37.56 metre



Bulb sill sweep.
Neoprene bulb gasket.
Available B, D & G finishes to order at extra cost.
328AA Anodised aluminium £36.73 metre



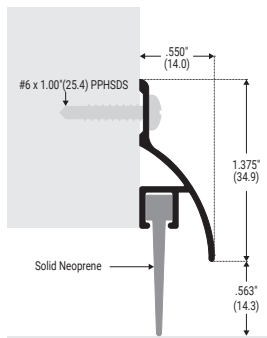
Chunky sill sweep.
Solid neoprene gasket.
Available D finish to order at extra cost.
539AA* Anodised aluminium £51.23 metre



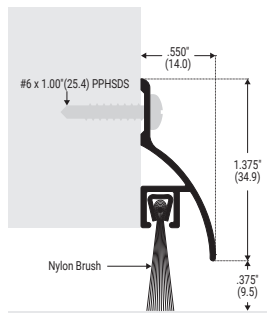
Mega extended sill sweep.
Solid neoprene gasket.
Available D finish to order at extra cost.
639WA Mill aluminium £73.07 metre

ZERO SILL SWEEPS

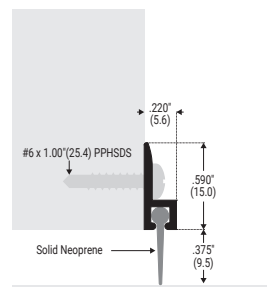
- Sizes:** 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
- Finishes:** Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.
- Availability:** Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
- Corrosion:** Zero 8197AA rain drip has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



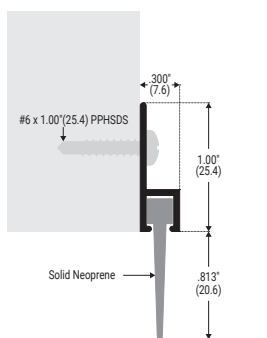
Rain drip with neoprene.
Neoprene blade gasket.
Available D & G finishes to order at extra cost.
8197AA Anodised aluminium £30.14 metre



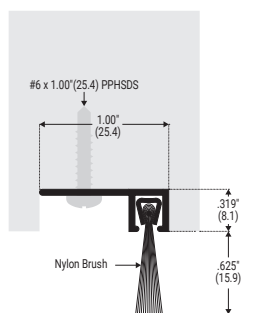
Rain drip with brush.
Nylon brush.
Available D & G finishes to order at extra cost.
8198AA Anodised aluminium £32.54 metre



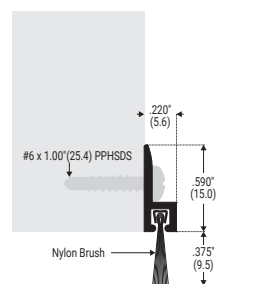
Sill sweep.
Neoprene blade gasket.
Available D finish to order at extra cost.
8194AA Anodised aluminium £24.68 metre



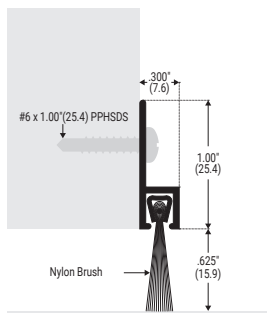
Sill sweep.
Neoprene blade gasket.
Available D & G finishes to order at extra cost.
8191AA Anodised aluminium £34.06 metre



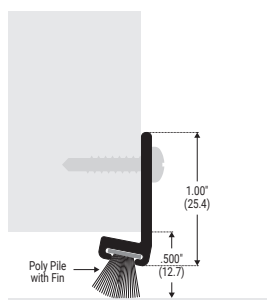
Angle sill sweep.
Nylon brush.
8149AA Anodised aluminium £34.23 metre



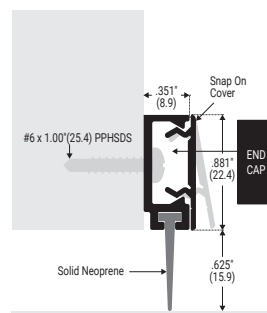
Brush sill sweep.
Nylon brush.
Available D finish to order at extra cost.
8193AA Anodised aluminium £26.52 metre



Brush sill sweep.
Nylon brush.
Available D & G finishes to order at extra cost.
8192AA Anodised aluminium £26.21 metre



Brush sill sweep.
Polypropylene pile with fin.
Available D finish to order at extra cost.
98A Mill aluminium £28.68 metre



Sill sweep, snap on cover.
Neoprene blade gasket.
Available D & G finishes to order at extra cost.
Optional end caps. (477AA/EC)
477AA Anodised aluminium £44.57 metre
477AA/EC Anodised aluminium £5.05 pair

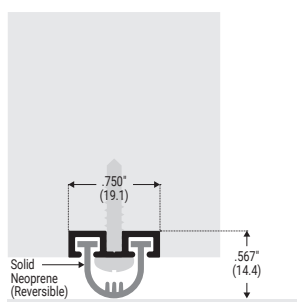
ZERO UNDER DOOR SEALS

Sizes: 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

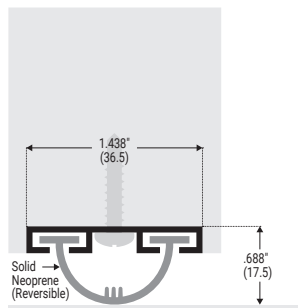
Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

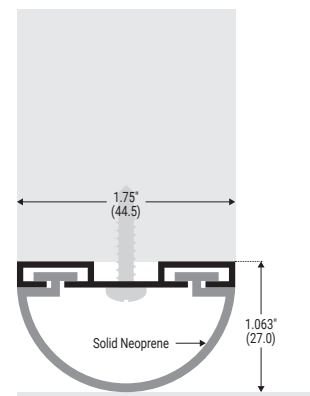
FLO option: Seals are notched and overlapped to facilitate air flow.



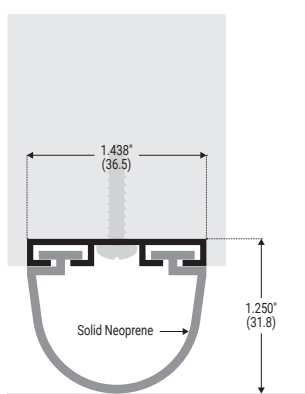
Neoprene under door seal.
19.1mm wide carrier.
53A Mill aluminium £50.58 metre



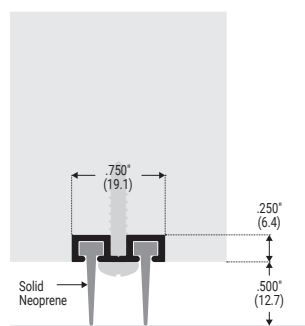
Neoprene under door seal.
38.5mm wide carrier.
52A Mill aluminium £43.19 metre



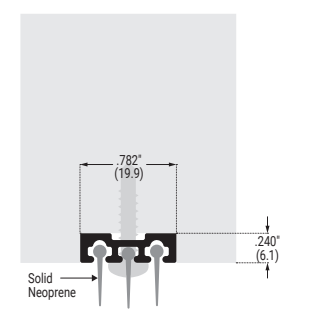
Neoprene under door seal.
44.5mm wide carrier.
72A Mill aluminium £51.60 metre



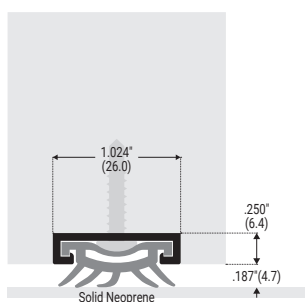
Larger neoprene under door seal.
36.5mm wide carrier.
452A Mill aluminium £56.72 metre



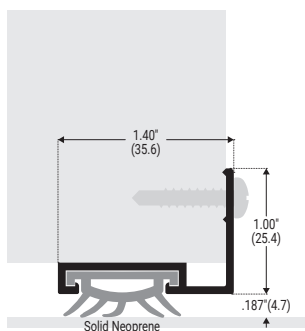
Double neoprene flipper under door seal.
19.1mm wide carrier.
381A Mill aluminium £35.15 metre
381A-FLO* Mill aluminium £68.32 metre



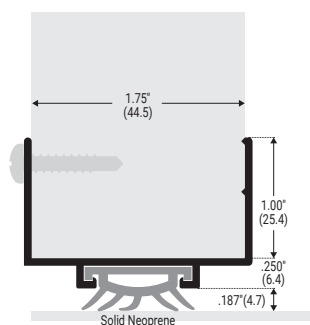
Triple neoprene flipper under door seal.
19.9mm wide carrier.
3546A* Mill aluminium £37.90 metre
3546A-FLO* Mill aluminium £80.65 metre



Ribbed neoprene under door seal.
26mm wide carrier.
253A Mill aluminium £25.46 metre
253A-FLO* Mill aluminium £51.68 metre



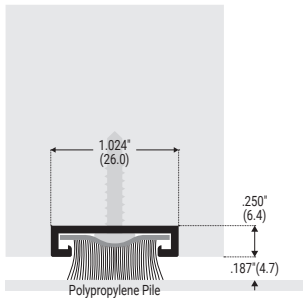
Ribbed neoprene angle door seal.
35.6mm wide carrier.
Available D finish to order at extra cost.
153A Mill aluminium £44.01 metre
153A-FLO* Mill aluminium £71.16 metre



Ribbed neoprene door shoe seal.
For 44mm thick door.
111A* Mill aluminium £57.49 metre

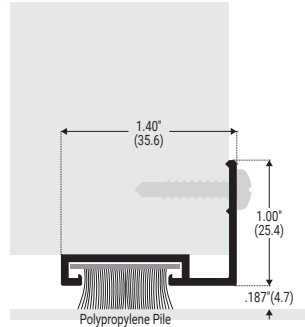
ZERO UNDER DOOR SEALS

- Sizes:** 914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
- Finishes:** Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.
- Availability:** Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



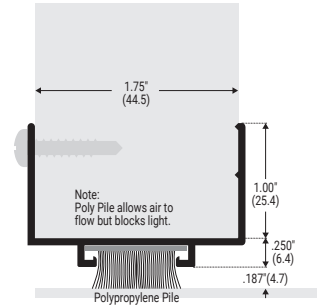
Polypropylene pile under door seal.
26mm wide carrier.

254A Mill aluminium £29.71 metre



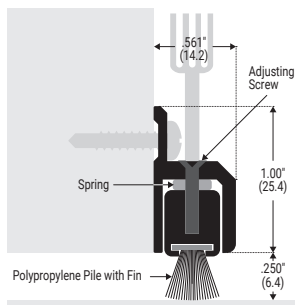
Polypropylene pile angle door seal.
35.6mm wide carrier.

Available D finish to order at extra cost.
154A Mill aluminium £59.17 metre



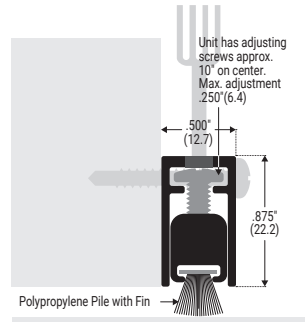
Polypropylene pile door shoe seal.
For 44mm thick door.

110A* Mill aluminium £57.49 metre



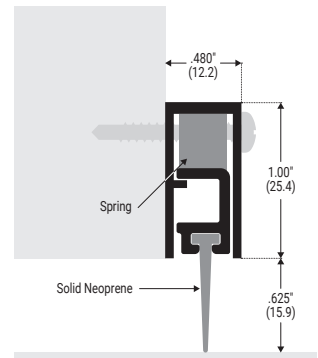
Adjustable sill sweep.
Polypropylene pile with fin.

255AA* Anodised aluminium £110.59 metre



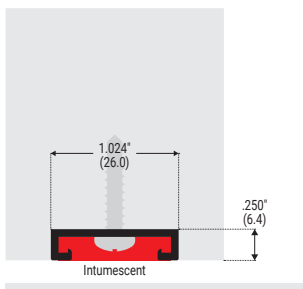
Adjustable sill sweep.
Polypropylene pile with fin.

871AA Anodised aluminium £92.33 metre



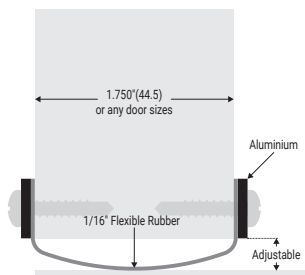
Adjustable sill sweep. Solid neoprene lip.

571AA Anodised aluminium £69.24 metre



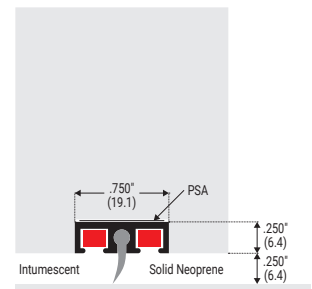
Morticed door sweep with intumescent.

253FSA* Mill aluminium £87.65 metre



Flexible rubber door sweep.

511A* Mill aluminium £60.53 metre

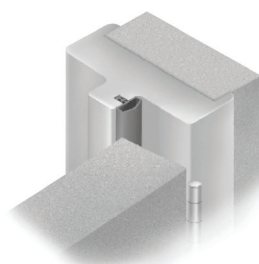


Morticed door sweep with neoprene blade and intumescent.

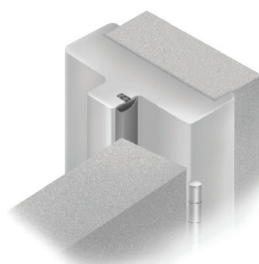
59FSA* Mill aluminium £85.29 metre

ZERO KERF FRAME WEATHERSTRIPPING

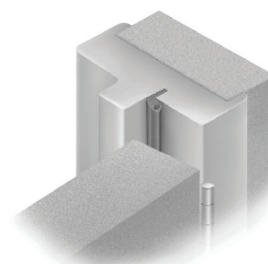
See door manufacturer specifications for minimum required clearance between door and frame. Most items shown below are available in self-extinguishing, non-staining neoprene or silicone. Please contact us for details on custom materials, colours and shapes. (Minimum order quantity may be required).



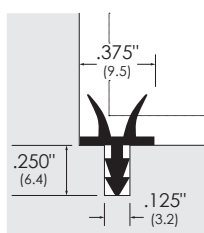
8810S



8800S

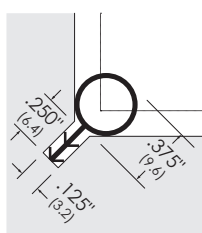


8052N



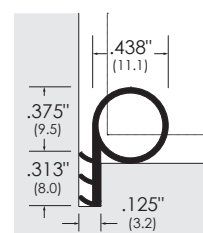
Silicone kerf seal.
8048S* Black

£10.38 metre



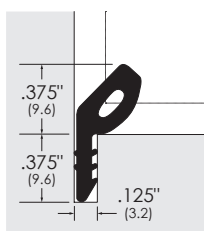
Silicone kerf pressure seal.
8055S* Black

£16.31 metre



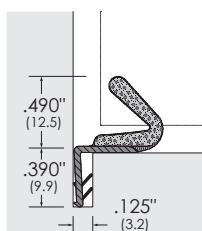
Silicone kerf pressure seal.
8056S* White

£16.31 metre



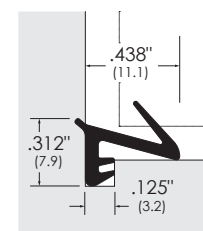
Closed cell sponge neoprene kerf seal.
8052N* Black

£10.38 metre



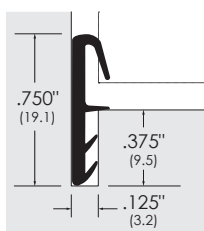
Kerf seal.
8053Q* Brown or white

£11.03 metre



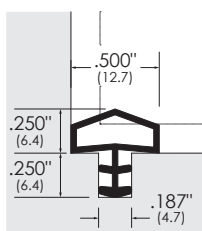
EPDM rubber kerf seal.
8841R* Black

£10.69 metre



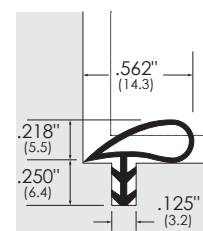
Solid neoprene kerf seal.
8043N* Black

£12.23 metre



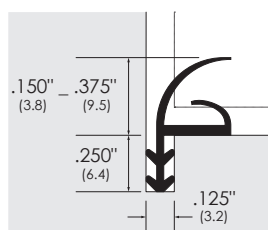
Silicone kerf seal.
8810S* Black

£12.23 metre



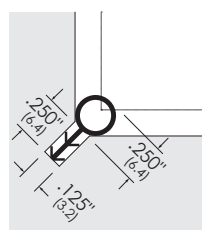
Silicone kerf seal.
8800S Black or white

£11.72 metre



Solid neoprene kerf seal.
8004N* Black

£10.98 metre



Silicone kerf pressure seal.
8054S* Black or white

£11.41 metre

ZERO MEETING STILE SEALS

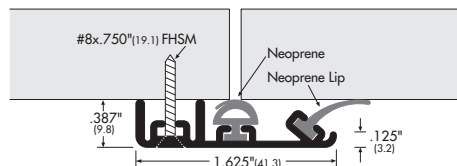
ONE DOOR ACTIVE

Surface fixing astragal seals for meeting stiles of pairs of doors with one active leaf. Please remember that a door selector may be required (see pages 131-135) if both leaves are fitted with a door closer.

Sizes: 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

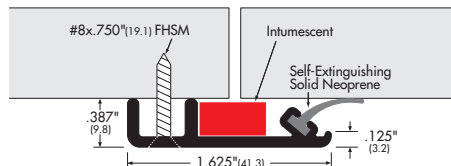


Surface fixing astragal seal.

Neoprene flipper bulb and neoprene lip.

Available D finish to order at extra cost.

383AA Anodised aluminium £43.10 metre

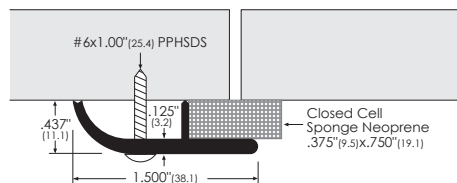


Surface fixing astragal.

Intumescent and neoprene lip.

Available D finish to order at extra cost.

383FSAA* Anodised aluminium £82.37 metre

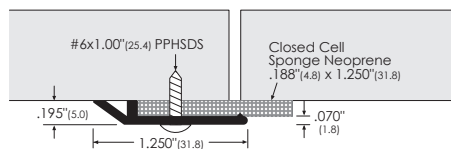


Surface fixing astragal seal.

Closed cell sponge neoprene.

Available D & G finishes to order at extra cost.

322A Mill aluminium £42.23 metre

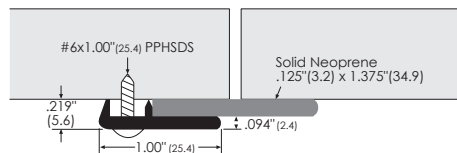


Surface fixing astragal seal.

Closed cell sponge neoprene.

Available D finish to order at extra cost.

139A Mill aluminium £39.95 metre

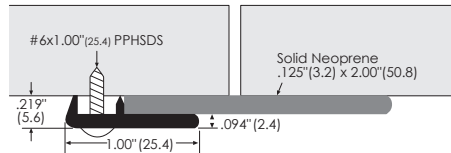


Surface fixing astragal seal.

Solid neoprene.

Available B, D & G finishes to order at extra cost.

339AA Anodised aluminium £39.07 metre

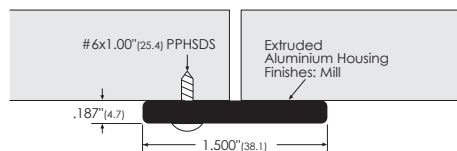


Surface fixing astragal seal.

Solid neoprene.

Available B, D & G finishes to order at extra cost.

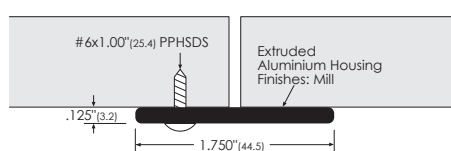
339WAA Anodised aluminium £53.43 metre



Surface fixing aluminium astragal.

4.7mm thick.

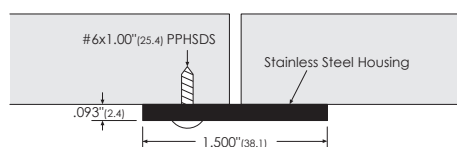
905A Mill aluminium £42.63 metre



Surface fixing aluminium astragal.

3.2mm thick.

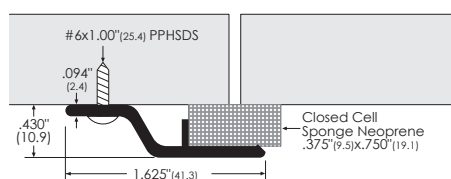
47A Mill aluminium £47.10 metre



Surface fixing stainless steel astragal.

2.4mm thick.

44STST* Stainless steel £95.07 metre



Surface fixing astragal seal.

Closed cell sponge neoprene.

140A Mill aluminium £50.45 metre

ZERO MEETING STILE SEALS

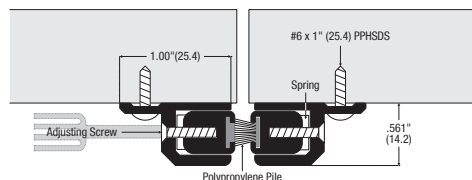
BOTH DOORS ACTIVE

Surface fixing and mortice fixing seals for meeting stiles of pairs of doors with both leaves active.

Sizes: 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

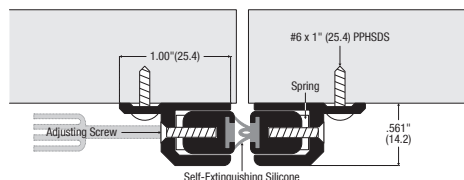


Adjustable surface fixing meeting stile seal.

Polypropylene pile.

Available D finish to order at extra cost.

55AA*/155AA* Anodised aluminium £212.81 metre (2 parts)

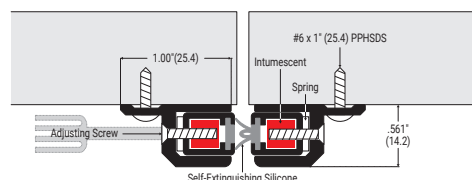


Adjustable surface fixing meeting stile seal.

Silicone double blade.

Available D finish to order at extra cost.

55AA*/555AA* Anodised aluminium £212.81 metre (2 parts)

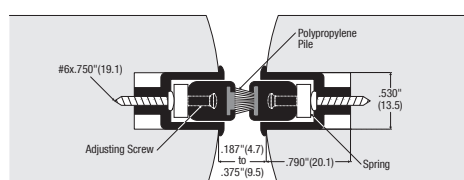


Adjustable surface fixing meeting stile seal with integral intumescent.

Silicone double blade.

Available D finish to order at extra cost.

55FSAA*/555FSAA* Anodised aluminium £271.66 metre (2 parts)

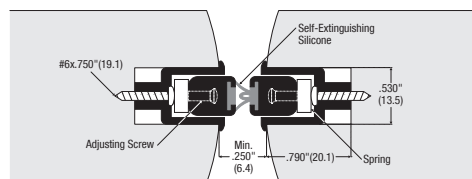


Adjustable mortice fixing meeting stile seal.

Polypropylene pile.

Available D & G finishes to order at extra cost.

56AA/156AA* Anodised aluminium £177.30 metre (2 parts)

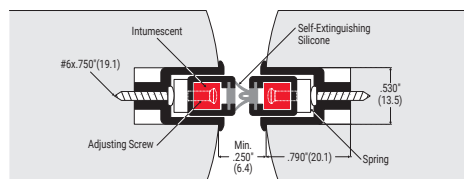


Adjustable mortice fixing meeting stile seal.

Silicone double blade.

Available D & G finishes to order at extra cost.

56AA/557AA Anodised aluminium £177.30 metre (2 parts)

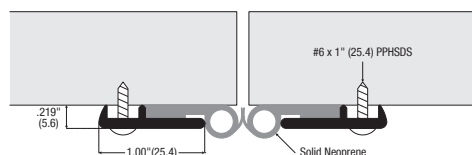


Adjustable mortice fixing meeting stile seal with integral intumescent.

Silicone double blade.

Available D & G finishes to order at extra cost.

56FSAA*/557FSAA* Anodised aluminium £265.51 metre (2 parts)



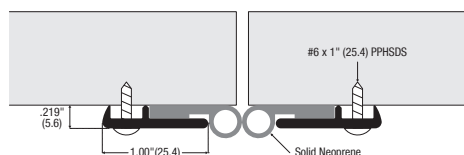
Surface fixing meeting stile seal.

Neoprene flipper bulb.

Symmetrical elongated fixing holes.

Available B, D & G finishes to order at extra cost.

326AA/326AA Anodised aluminium £96.12 metre (2 parts)



Surface fixing meeting stile seal.

Neoprene bulb.

Symmetrical elongated fixing holes.

Available B, D & G finishes to order at extra cost.

328AA/328AA Anodised aluminium £73.46 metre (2 parts)

ZERO MEETING STILE SEALS

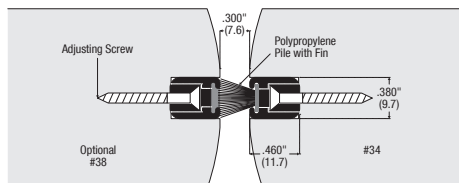
BOTH DOORS ACTIVE

Surface fixing and mortice fixing seals for meeting stiles of pairs of doors with both leaves active.

Sizes: 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

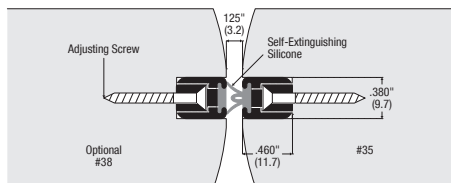
Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.



Adjustable mortice fixing meeting stile seal.
Polypropylene pile with fin.

Available D & G finishes to order at extra cost.

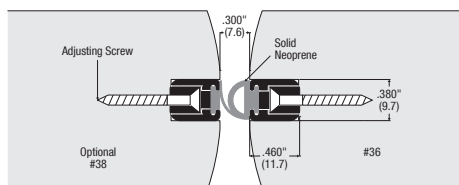
34AA*	Anodised aluminium	£56.72 metre (34AA only)
38AA*	Optional extra	£55.88 metre



Adjustable mortice fixing meeting stile seal.
Silicone double blade.

Available D & G finishes to order at extra cost.

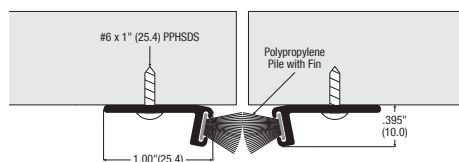
35AA*	Anodised aluminium	£56.72 metre (35AA only)
38AA*	Optional extra	£55.88 metre



Adjustable mortice fixing meeting stile seal.
Neoprene flipper bulb.

Available D & G finishes to order at extra cost.

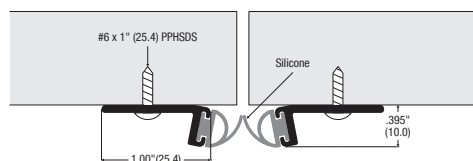
36AA*	Anodised aluminium	£56.72 metre (36AA only)
38AA*	Optional extra	£55.88 metre



Surface fixing meeting stile seal.
Polypropylene pile with fin.

Available D finish to order at extra cost.

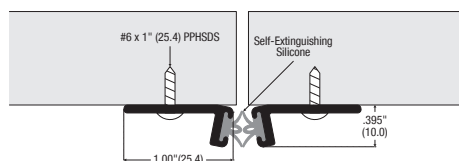
98A/98A	Mill aluminium	£57.36 metre (2 parts)
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Surface fixing meeting stile seal.
Silicone flipper bulb.

Available D finish to order at extra cost.

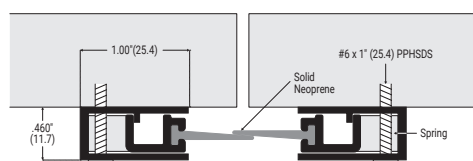
99A*/99A*	Mill aluminium	£73.24 metre (2 parts)
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Surface fixing meeting stile seal.
Silicone double blade.

Available D finish to order at extra cost.

100A/100A	Mill aluminium	£73.24 metre (2 parts)
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Surface fixing meeting stile seal.
Neoprene blade.

Spring loaded self-adjusting seal.

571AA/571AA	Anodised aluminium	£138.48 metre (2 parts)
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ZERO MEETING STILE SEALS

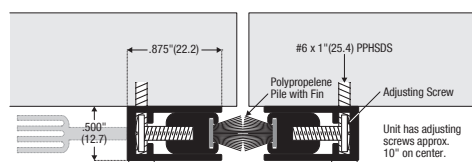
BOTH DOORS ACTIVE

Surface fixing and mortice fixing seals for meeting stiles of pairs of doors with both leaves active.

Sizes: 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

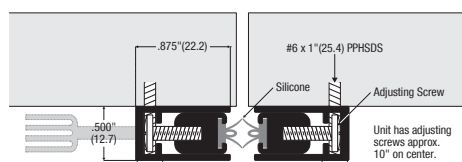


Adjustable surface fixing meeting stile seal.

Polypropylene pile with fin.

Available D finish to order at extra cost.

871AA/871AA Anodised aluminium £184.66 metre (2 parts)

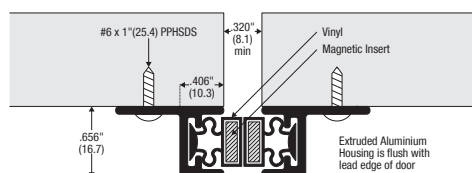


Adjustable surface fixing meeting stile seal.

Silicone double blade.

Available D finish to order at extra cost.

873AA*/873AA* Anodised aluminium £184.65 metre (2 parts)

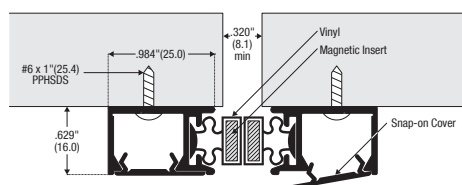


Surface fixing meeting stile seal.

Magnetic.

Available D finish to order at extra cost.

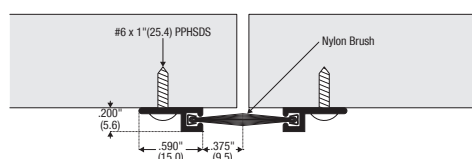
370A/370A Mill aluminium £155.20 metre (2 parts)



Concealed fixing meeting stile seal, snap on cover.

Magnetic.

375AA/375AA Anodised aluminium £170.46 metre (2 parts)

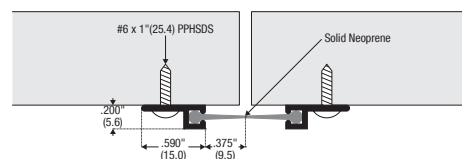


Surface fixing meeting stile seal.

Nylon brush.

Available D finish to order at extra cost.

8193AA/8193AA Anodised aluminium £53.04 metre (2 parts)

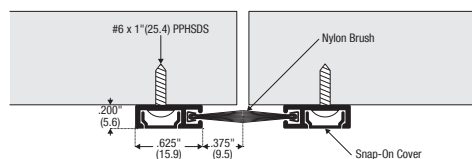


Surface fixing meeting stile seal.

Neoprene blade.

Available D finish to order at extra cost.

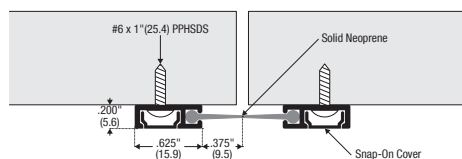
8194AA/8194AA Anodised aluminium £49.36 metre (2 parts)



Concealed fixing meeting stile seal, snap on cover.

Nylon brush.

8879AA/8879AA Anodised aluminium £61.48 metre (2 parts)



Concealed fixing meeting stile seal, snap on cover.

Neoprene blade.

8195AA/8195AA Anodised aluminium £59.38 metre (2 parts)

ZERO MEETING STILE SEALS

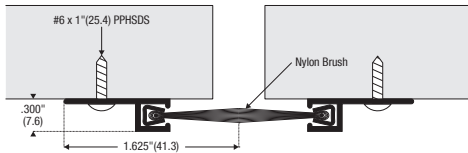
BOTH DOORS ACTIVE

Surface fixing and mortice fixing seals for meeting stiles of pairs of doors with both leaves active.

Sizes: 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.

Finishes: Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated. During the life of this catalogue and as current inventory is sold, our stock of mill aluminium products (finish A) will be switching to anodised aluminium (finish AA). Prices will remain the same. We will endeavour to avoid supplying orders in mixed finishes.

Availability: Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.

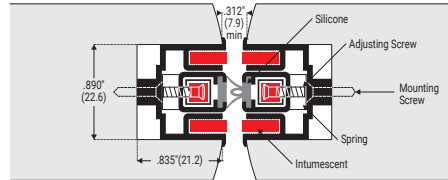


Surface fixing meeting stile seal.

Nylon brush.

Available D & G finishes to order at extra cost.

8192AA/8192AA Anodised aluminium £52.42 metre (2 parts)

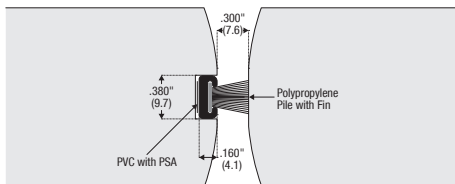


Adjustable mortice fixing meeting stile seal with integral intumescent.

Silicone double blade.

Available D & G finishes to order at extra cost.

3056FSAA*/3557FSAA* Anodised aluminium £386.30 metre (2 parts)

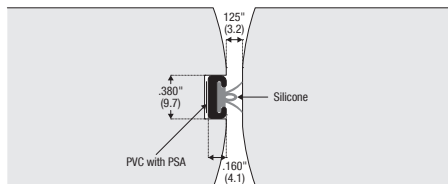


Mortice fixing meeting stile seal.

Polypropylene pile with fin.

Self-adhesive brown PVC housing.

398V* Brown PVC holder £31.68 metre (1 part)

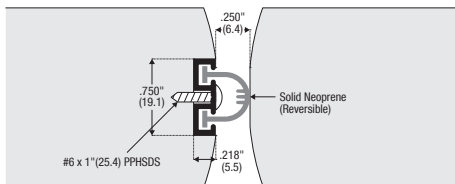


Mortice fixing meeting stile seal.

Silicone double blade.

Self-adhesive brown PVC housing.

399V* Brown PVC holder £31.68 metre (1 part)

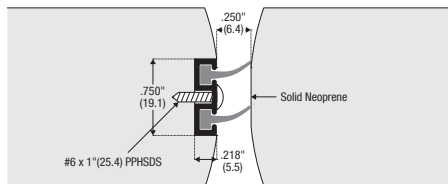


Mortice fixing meeting stile seal.

Neoprene in aluminium track.

19mm carrier.

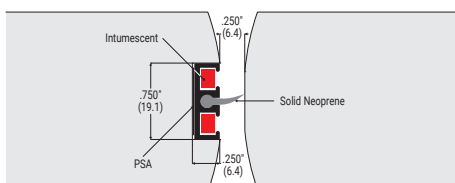
53A Mill aluminium £50.58 metre (1 part)



Mortice fixing meeting stile seal.

Double neoprene blade.

381A Mill aluminium £35.15 metre (1 part)



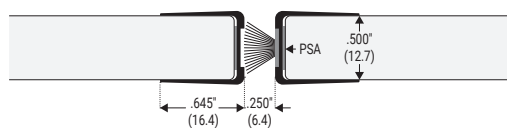
Mortice fixing meeting stile seal with intumescent.

Neoprene blade.

59FSA* Mill aluminium £85.29 metre (1 part)

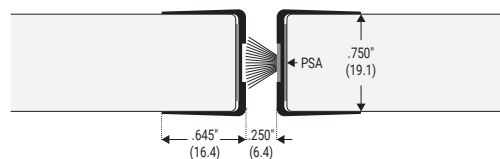
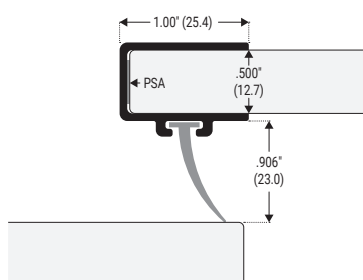
ZERO GLASS DOOR SEALS EXTENDED

ZERO PVC POLY PILE SEALS - TO SUIT IMPERIAL GLASS THICKNESS



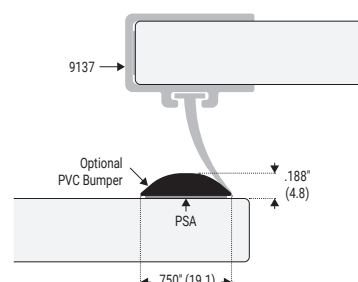
Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC housing with grey polypropylene pile.
To suit 12.7mm thick door.
6.4mm high brush.

137PVC (Brush) £86.97 each (1 strip)
135PVC* (No Brush) £62.66 each (1 strip)



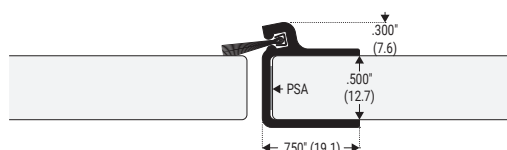
Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC housing with grey polypropylene pile.
To suit 19.1mm thick door.
6.4mm high brush.

138PVC* (Brush) £113.09 each (1 strip)
136PVC* (No Brush) £86.84 each (1 strip)



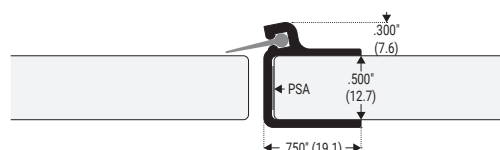
Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC housing with grey silicone blade.
To suit 12.7mm thick door.
23mm high blade.

9137-PSA* NEW £67.10 each (1 strip)



Optional Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC bumper, PSA standard.
To suit 9137 glass door seal.
19.1mm wide x 4.8mm high.

9131-PSA* NEW £26.16 each (1 strip)



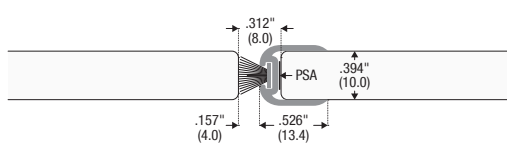
Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC housing with black nylon pile.
To suit 12.7mm thick door.

133* NEW £41.20 each (1 strip)

Self-adhesive glass door seal, 2438mm long.
Flexible clear PVC housing with neoprene blade.
To suit 12.7mm thick door.

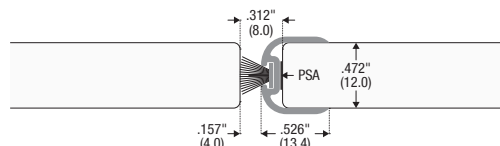
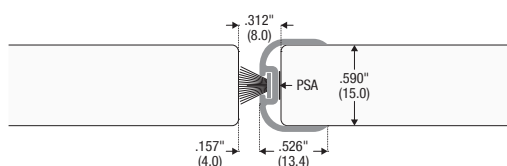
134* NEW £18.43 each (1 strip)

ZERO POLYCARBONATE POLY PILE SEALS - TO SUIT METRIC GLASS THICKNESS



Self-adhesive glass door seal, 2438mm long.
Clear polycarbonate housing with grey polypropylene pile.
To suit 10mm thick door.
4mm high brush.

8136 £95.79 each (1 strip)

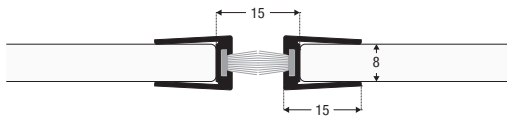


Self-adhesive glass door seal, 2438mm long.
Clear polycarbonate housing with grey polypropylene pile.
To suit 15mm thick door.
4mm high brush.

8138 £111.72 each (1 strip)

ZERO GLASS DOOR SEALS EXTENDED

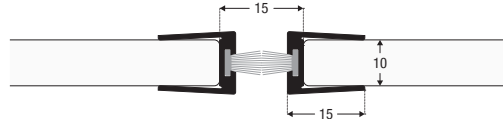
ZEROPLUS GLASS DOOR PROFILES - TO SUIT METRIC GLASS THICKNESS



Clip-on meeting stile seal, two strips.
Aluminium carrier with soft brush.
To suit 8mm thick door.
Standard length 2250mm.

GDP-8MM/GDP-8MM
GDP-8MM

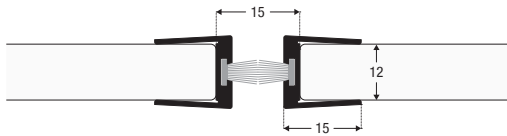
£39.86 set (2 strips)
£19.93 each (1 strip)



Clip-on meeting stile seal, two strips.
Aluminium carrier with soft brush.
To suit 10mm thick door.
Standard length 2250mm.

GDP-10MM/GDP-10MM
GDP-10MM

£42.86 set (2 strips)
£21.43 each (1 strip)

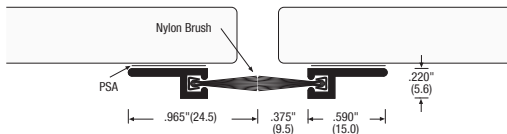


Clip-on meeting stile seal, two strips.
Aluminium carrier with soft brush.
To suit 12mm thick door.
Standard length 2250mm.

GDP-12MM/GDP-12MM
GDP-12MM

£44.82 set (2 strips)
£22.41 each (1 strip)

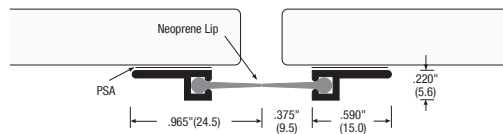
ZERO SELF-ADHESIVE GLASS DOOR EDGE SEALS - TO SUIT ANY GLASS THICKNESS



Self-adhesive meeting stile seal, two strips.
Anodised aluminium carrier with nylon brush.

8193AA-PSA/8193AA-PSA
8193AA-PSA

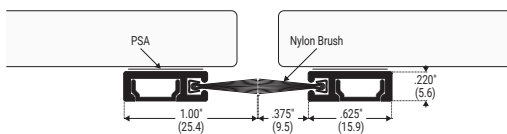
£64.74 metre (2 strips)
£32.37 metre (1 strip)



Self-adhesive meeting stile seal, two strips.
Anodised aluminium carrier with neoprene lip.

8194AA-PSA*/8194AA-PSA*
8194AA-PSA*

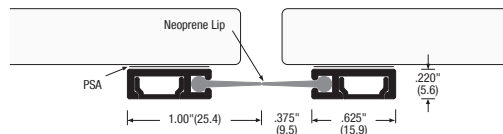
£64.74 metre (2 strips)
£32.37 metre (1 strip)



Self-adhesive meeting stile seal, two strips.
Anodised aluminium carrier with nylon brush.
Clip on cover.

8879AA-PSA*/8879AA-PSA*
8879AA-PSA*

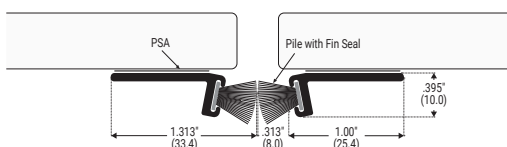
£77.26 metre (2 strips)
£38.63 metre (1 strip)



Self-adhesive meeting stile seal, two strips.
Anodised aluminium carrier with neoprene lip.
Clip on cover.

8195AA-PSA*/8195AA-PSA*
8195AA-PSA*

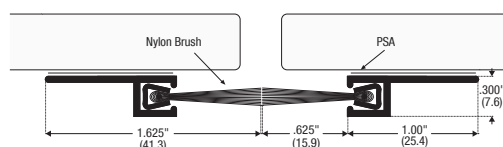
£80.10 metre (2 strips)
£40.05 metre (1 strip)



Self-adhesive meeting stile seal, two strips.
Mill aluminium carrier with grey polypropylene pile with fin.

98A-PSA*/98A-PSA*
98A-PSA*

£77.92 metre (2 strips)
£38.96 metre (1 strip)

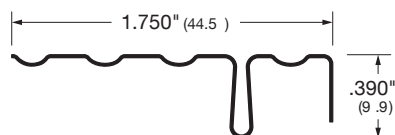


Self-adhesive meeting stile seal, two strips.
Mill aluminium carrier with nylon brush.

8192A-PSA*/8192A-PSA*
8192A-PSA*

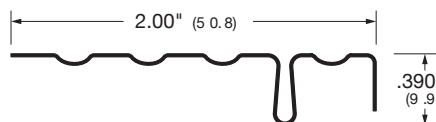
£67.82 metre (2 strips)
£33.91 metre (1 strip)

ZERO SPRING & CUSHION SEALS



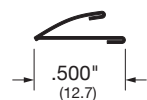
Bronze and zinc top sash (4) spring seal for doors and windows.
44mm wide.

4B*	25 B.&S. gauge bronze	£49.16 metre
4Z*	9 gauge zinc	£16.33 metre



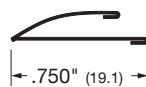
Bronze and zinc lower sash (5) spring seal for doors and windows.

5B*	25 B.&S. gauge bronze	£53.62 metre
5Z*	9 gauge zinc	£17.89 metre



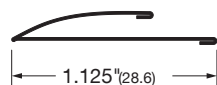
Bronze cushion spring for doors and windows.
Pin fixing.

18B	34 B.&S. gauge bronze	£8.58 metre
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Bronze cushion spring for doors and windows.
Pin fixing.

19B*	34 B.&S. gauge bronze	£9.83 metre
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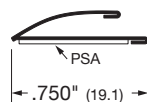
Bronze cushion spring for doors and windows.
Pin fixing.

19WB*	34 B.&S. gauge bronze	£10.08 metre
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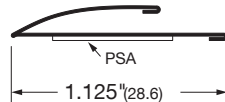
Bronze cushion spring for doors and windows.
Self-adhesive fixing.
Stock size 2134mm.

118B	34 B.&S. gauge bronze	£10.59 metre
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Bronze cushion spring for doors and windows.
Self-adhesive fixing.
Stock size 2134mm.

119B	34 B.&S. gauge bronze	£13.13 metre
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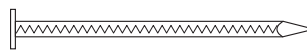
Bronze cushion spring for doors and windows.
Self-adhesive fixing.
Stock sizes 914mm and 2134mm.

119WB	34 B.&S. gauge bronze	£12.02 metre
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FIXINGS FOR SPRING & CUSHION SEALS



Fixings for hollow metal doors. #4 x 8mm wafer-head drive screws.

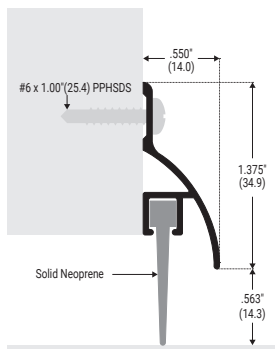


Fixings for wood doors. #16 x 22mm weatherstrip nails.

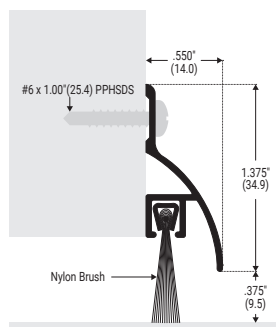
B.&S. = Brown & Sharpe wire gauge 1857 (N. America)

ZERO RAIN DRIPS

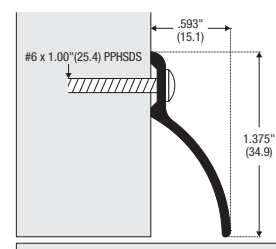
Sizes:	914mm (3 ft), 1219mm (4 ft), 1829mm (6 ft), 2134mm (7 ft), 3048mm (10 ft). Other sizes available to order, maximum 3048mm.
Finishes:	Mill aluminium (A), clear anodised silver (AA), self colour brass/US bronze (B), dark bronze anodised (D), and gold anodised (G) where indicated.
Availability:	Usually ex-stock except items marked with an asterisk, which are to special order (3-5 weeks) depending on quantity.
Corrosion:	Zero 8197AA and 11A rain drips have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



Rain drip with neoprene.
Available D & G finishes to order at extra cost.
8197AA Anodised aluminium £30.14 metre

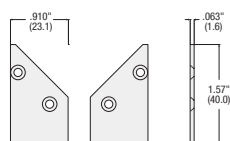


Rain drip with brush.
Available D & G finishes to order at extra cost.
8198AA Anodised aluminium £32.54 metre

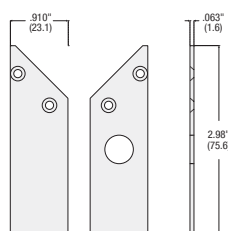


Rain drip.
Available D & G finishes to order at extra cost.
11A Mill aluminium £17.35 metre ▲
▲ call for bulk pack rate (20 x 3048mm undrilled).

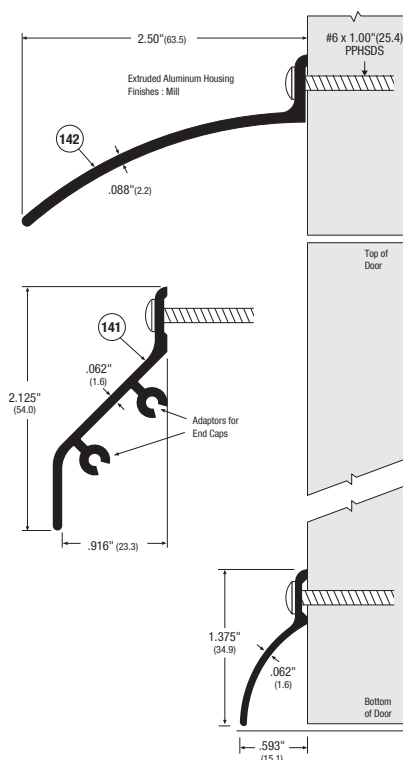
SERIES 148 INTERLOCKING WATERSHED			
REF	DESCRIPTION	PRICE	UNIT
142A	Aluminium rain drip, mill finish, 64mm projection	£39.40	metre
141A	Aluminium watershed, mill finish, 23mm projection	£39.81	metre
141AA/EC	Aluminium end caps to suit above, anodised finish	£5.05	pair
11A	Aluminium rain drip, mill finish	£17.35	metre ▲
11D	Aluminium rain drip, dark bronze anodised	£32.41	metre
11G	Aluminium rain drip, gold anodised	£32.41	metre



Pair of end caps.
To suit 141A watershed only.
Two identical plates.
Aluminium, anodised finish.
141AA/EC-STANDARD £5.05 pair



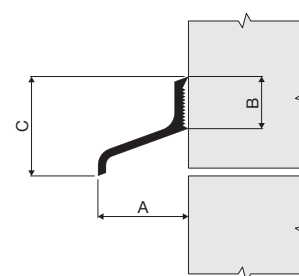
Pair of end caps.
To suit 141A watershed with 361 or 365 dropseal fitted beneath it. One plate with hole for plunger side, and one plate without hole for other side.
Aluminium, anodised finish.
141AA/EC-EXTENDED £10.21 pair
(advise LH or RH)



SERIES ALD MODULAR RAIN DRIP

ALD Aluminium rain drip, mill finish, five sizes of profile, 2500mm long						
REF	DIM. A	DIM. B	DIM. C	PRICE	UNIT	BOX QTY
ALD-A120 ▼	20mm	12mm	22mm	£15.26	each	30
ALD-A125	25mm	12mm	24mm	£16.02	each	20
ALD-A135	35mm	21mm	31mm	£25.25	each	20
ALD-A150	50mm	21mm	37mm	£32.23	each	10
ALD-A175 ▼	75mm	26mm	50mm	£53.89	each	10

▼ To be discontinued when stocks sold.



ZERO "ZAG" ANTI-LIGATURE GASKETING

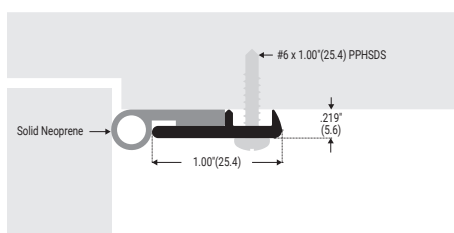
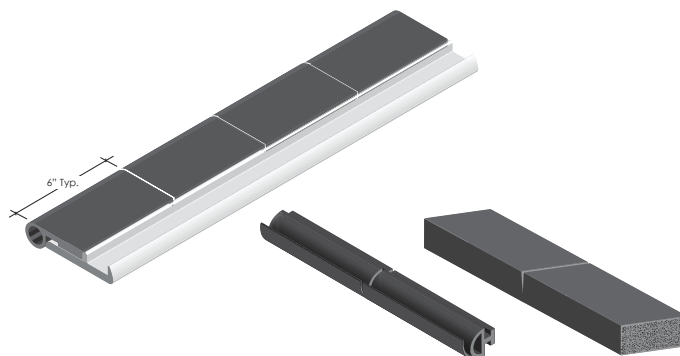
Zero now offers an anti-ligature option to prevent gasketing from being used for other than intended purposes, including harming self or others. The rubber in our patented anti-ligature gasketing is scored before insertion into aluminium extrusions, allowing normal function for its specified purpose but designed to break into pieces if removed from the extrusion for any reason.

Applications for anti-ligature gasketing include hospitals, young offender institutions, prisons, psychiatric and mental health units.

Gasketing ordered with this patented feature is installed as usual, with no special handling required.

In addition to the applications shown below, the anti-ligature option can be supplied on request with most other Zero gasketing. To order, add -ZAG after the product code. Example 870AA-ZAG.

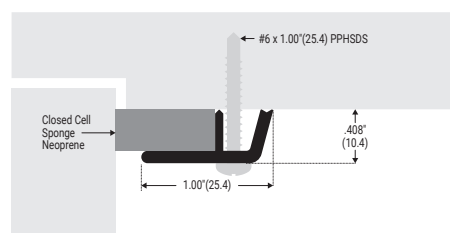
US Patent #7788852.



328 VISIBLE FIXING FRAME SEAL

Elongated fixing holes, black ZAG neoprene bulb gasket, scored. Aluminium carrier.

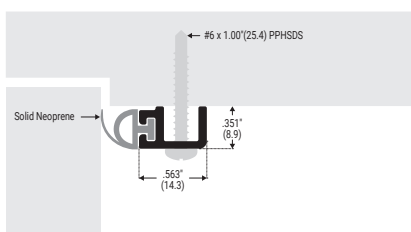
328AA-ZAG*	Clear anodised silver	£51.15 metre
328D-ZAG*	Dark bronze anodised	£67.03 metre
328G-ZAG*	Gold anodised	£67.03 metre



318 VISIBLE FIXING FRAME SEAL

Elongated fixing holes, black ZAG closed cell sponge neoprene, scored. Aluminium carrier.

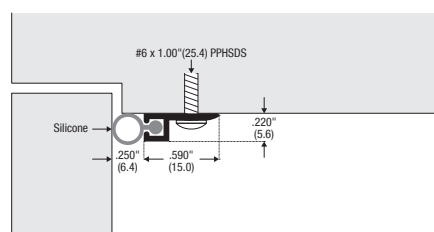
318AA-ZAG*	Clear anodised silver	£55.00 metre
318D-ZAG*	Dark bronze anodised	£60.51 metre
318G-ZAG*	Gold anodised	£60.51 metre



485 VISIBLE FIXING FRAME SEAL

Elongated fixing holes, black ZAG neoprene flipper gasket, scored. Aluminium carrier.

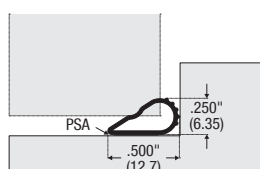
485A-ZAG*	Mill aluminium silver	£36.28 metre
485D-ZAG*	Dark bronze anodised	£52.45 metre
485G-ZAG*	Gold anodised	£52.45 metre



8303 VISIBLE FIXING FRAME SEAL

Elongated fixing holes, black ZAG neoprene bulb gasket, scored. Aluminium carrier.

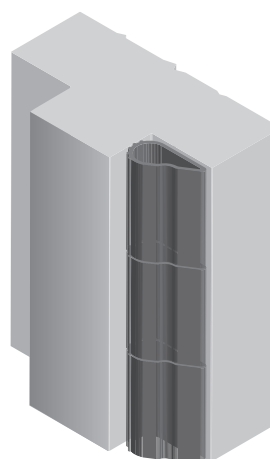
8303AA-ZAG*	Clear anodised silver	£26.08 metre
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188 TEARDROP SEAL

Standard teardrop seal, PSA self-adhesive. Compress-O-Matic, 6.35mm thick x 12.7mm wide.

188S-BK-ZAG*	Black silicone, scored	£15.22 metre
188S-BR-ZAG*	Brown silicone, scored	£15.22 metre
188S-CL-ZAG*	Clear silicone, scored	£15.22 metre
188S-GY-ZAG*	Grey silicone, scored	£15.22 metre
188S-WH-ZAG*	White silicone, scored	£15.22 metre
188FS-ZAG*	Intumescent, scored	£22.16 metre
188BIO-ZAG*	Anti-bacterial, scored, white only	£15.53 metre



ZERO AIR CONTROL SYSTEMS

The simplest air (and smoke) control seals we offer are 188S, 488S, and 388S teardrop (see pages 64-65). These have been tested to BS 476-31.1 and BS EN 1634-3 and have a leakage not exceeding 3m³/m/h i.e. less than 3 cubic metres per metre of frame crack per hour at 25 Pa. Actual figures shown on page 50.

However, Zero has designed and tested other systems against air leakage to demonstrate the effectiveness of these products and materials at higher pressures. They have been tested for air infiltration (positive pressure) where high pressure pushes the door against the seal, and also for the more onerous air exfiltration (negative pressure) where high pressure pushes the door away from the seal. By specifying a complete "Air Control System" you are assured that the components installed for head, jamb and sill will perform properly together.

The table on page 51 shows tests conducted under positive and negative pressure at 76 Pa (25 mph), 100 Pa (28 mph), 150 Pa (35 mph), 306 Pa (50 mph), 688 Pa (75 mph), and 1223 Pa (100 mph).

Positive pressure (air infiltration) - where high pressure pushes the door against the seals. For example, external outward opening doors with panic exit devices.

Negative pressure (air exfiltration) - where high pressure pushes the door away from the seals. For example, computer rooms, halon systems, hotel bedroom doors etc.

Negative pressure tests are the more onerous.

The higher the air pressure differential, the better the quality of the gasketing is needed. Adjustable gasketing facilitates installation and allows adjustment when needed for consistent performance over time.

Below we show two specific sets of seals that have been tested; the Dade County set and the Safe Haven set. These illustrate where the seals are fitted on the door.

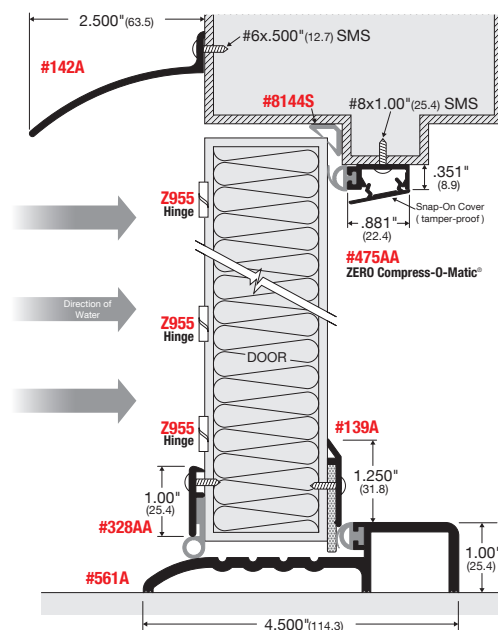
HURRICANE PROTECTION SEALS (DADE COUNTY)

Properties in Miami-Dade County, Florida are subjected to seasonal hurricane force winds and Zero offers a tried and tested set of seals for such situations. This is known as the "Dade County set". To maximise protection, doors should be designed to open out which means that strong winds will force the door against the seals. The Dade County Set has been tested under positive pressure to a wind velocity of 135 mph and protects against wind-driven water infiltration.

Prices for seals in Dade County set:

REF	DESCRIPTION	PRICE	UNIT
Z955*	114mm stainless steel cam hinge	£166.58	each
475AA	Frame seal (for head & jambs) (stock sizes 914mm, 1219mm, 2134mm)	£37.82	metre
8144S	Wing type PSA seal (for head & jambs) (stock size 2438mm strip)	£31.51	strip
142A	Rain drip (fitted above door)	£39.40	metre
328AA	Sill sweep (fitted externally)	£36.73	metre
139A	Sill sweep (fitted internally)	£39.95	metre
561A	Threshold (floor) (stock sizes 914mm, 1219mm, 1829mm)	£77.98	metre

If a frame seal with greater adjustment is required, 870AA frame seal can be used in place of 475AA as it has an identical gasket. 870AA costs £76.08 metre and is available in stock sizes of 914mm, 1219mm, 1829mm, 2134mm and 3048mm.



SAFE HAVEN SEALS

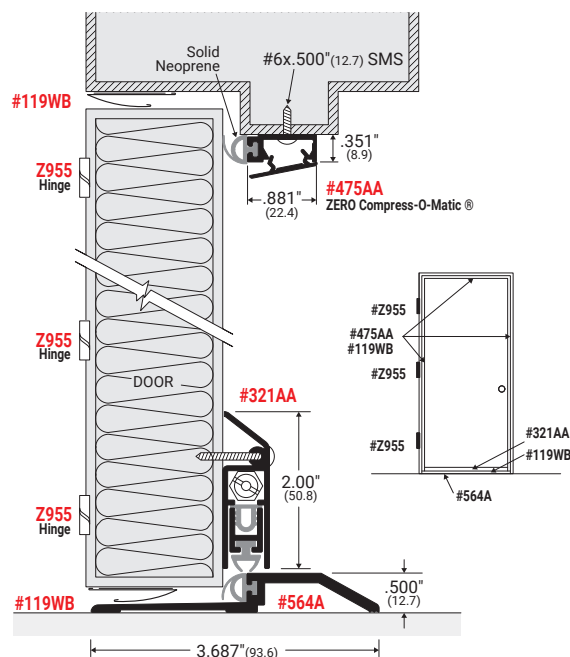
In response to heightened security requirements, Zero has introduced a set of "Safe Haven" room seals. To maximise protection, doors should be designed to open out of the safe haven and the seals should be fitted inside the safe haven. This means high pressure will push the door against the seals. This set is particularly effective against airborne diseases and spores.

The Safe Haven set has been tested under positive pressure to a wind velocity of 100 mph (1223 Pascals) and resulted in an air leakage of only 2.8 CMH/LMC (Cubic Metres per Hour / Linear Metre of frame Crack). The air leakage is much lower if the wind velocity is reduced.

Prices for seals in Safe Haven set:

REF	DESCRIPTION	PRICE	UNIT
Z955*	114mm stainless steel cam hinge	£166.58	each
475AA	Frame seal (for head & jambs) (stock sizes 914mm, 1219mm, 2134mm)	£37.82	metre
119WB	Bronze spring seal (to all four sides) (stock sizes 914mm, 2134mm)	£12.02	metre
321AA	Dropseal 762 & 914mm LH & RH (other sizes available to suit door width)	£45.03	each
564A	Threshold (floor) (stock sizes 914mm, 1219mm, 1829mm)	£39.52	metre

If a frame seal with greater adjustment is required, 870AA frame seal can be used in place of 475AA as it has an identical gasket. 870AA costs £76.08 metre and is available in stock sizes of 914mm, 1219mm, 1829mm, 2134mm and 3048mm.



ZERO AIR CONTROL SYSTEMS - UK TESTING

TEST #	PASCALS (Pa)	WIND VELOCITY (MPH)	PRODUCTS TESTED			LEAKAGE RATE CMH/LMC (m³/h.m)	
			FRAME SEAL	THRESHOLD	DROPSEAL	Zero Negative Pressure	Zero Positive Pressure
1	25 Pa	14 mph	188S	Taped	None	0.00 CMH/LMC	0.48 CMH/LMC
2	25 Pa	14 mph	488S	Taped	None	0.00 CMH/LMC	0.00 CMH/LMC
3	25 Pa	14 mph	388S	Taped	None	0.57 CMH/LMC	1.13 CMH/LMC
1	25 Pa	14 mph	388S	Taped	None	0.57 CMH/LMC	1.13 CMH/LMC
2	25 Pa	14 mph	Taped	564A	None	1.36 CMH/LMC	1.81 CMH/LMC
3	25 Pa	14 mph	388S	564A	None	0.45 CMH/LMC	0.28 CMH/LMC
4	25 Pa	14 mph	Taped	None	321A	0.69 CMH/LMC	2.31 CMH/LMC
5	25 Pa	14 mph	388S	None	321A	0.18 CMH/LMC	0.52 CMH/LMC
6	25 Pa	14 mph	475AA	Taped	None	0.78 CMH/LMC	0.39 CMH/LMC
7	25 Pa	14 mph	770AA	Taped	None	1.07 CMH/LMC	0.91 CMH/LMC
1	76 Pa	25 mph	D-0608	564A	None	0.16 CMH/LMC	0.11 CMH/LMC
2	76 Pa	25 mph	188S	564A	None	0.27 CMH/LMC	0.21 CMH/LMC
3	76 Pa	25 mph	388S	564A	None	0.19 CMH/LMC	0.14 CMH/LMC
4	76 Pa	25 mph	475AA & 188S	564A	365AA	0.16 CMH/LMC	0.10 CMH/LMC
5	76 Pa	25 mph	870AA & 188S	564A	365AA	0.25 CMH/LMC	0.23 CMH/LMC
6	76 Pa	25 mph	770AA & 188S	564A	365AA	0.23 CMH/LMC	0.20 CMH/LMC
7	76 Pa	25 mph	770AA & 388S	564A	365AA	0.12 CMH/LMC	0.06 CMH/LMC
8	76 Pa	25 mph	475AA & 388S	564A	365AA	0.12 CMH/LMC	0.05 CMH/LMC
1	306 Pa	50 mph	D-0608	564A	None	0.87 CMH/LMC	0.34 CMH/LMC
2	306 Pa	50 mph	188S	564A	None	0.48 CMH/LMC	0.49 CMH/LMC
3	306 Pa	50 mph	388S	564A	None	0.34 CMH/LMC	0.37 CMH/LMC
4	306 Pa	50 mph	475AA & 188S	564A	365AA	0.30 CMH/LMC	0.34 CMH/LMC
5	306 Pa	50 mph	870AA & 188S	564A	365AA	0.51 CMH/LMC	0.50 CMH/LMC
6	306 Pa	50 mph	770AA & 188S	564A	365AA	0.47 CMH/LMC	0.46 CMH/LMC
7	306 Pa	50 mph	770AA & 388S	564A	365AA	0.26 CMH/LMC	0.29 CMH/LMC
8	306 Pa	50 mph	475AA & 388S	564A	365AA	0.25 CMH/LMC	0.28 CMH/LMC
1	688 Pa	75 mph	D-0608	564A	None	1.41 CMH/LMC	0.57 CMH/LMC
2	688 Pa	75 mph	188S	564A	None	1.31 CMH/LMC	0.81 CMH/LMC
3	688 Pa	75 mph	388S	564A	None	0.57 CMH/LMC	0.65 CMH/LMC
4	688 Pa	75 mph	475AA & 188S	564A	365AA	0.95 CMH/LMC	0.58 CMH/LMC
5	688 Pa	75 mph	870AA & 188S	564A	365AA	1.06 CMH/LMC	0.80 CMH/LMC
6	688 Pa	75 mph	770AA & 188S	564A	365AA	1.31 CMH/LMC	0.65 CMH/LMC
7	688 Pa	75 mph	770AA & 388S	564A	365AA	0.42 CMH/LMC	0.51 CMH/LMC
8	688 Pa	75 mph	475AA & 388S	564A	365AA	0.39 CMH/LMC	0.48 CMH/LMC
1	1223 Pa	100 mph	D-0608	564A	None	2.73 CMH/LMC	0.81 CMH/LMC
2	1223 Pa	100 mph	188S	564A	None	13.43 CMH/LMC	1.12 CMH/LMC
3	1223 Pa	100 mph	388S	564A	None	0.86 CMH/LMC	0.89 CMH/LMC
4	1223 Pa	100 mph	475AA & 188S	564A	365AA	2.15 CMH/LMC	0.78 CMH/LMC
5	1223 Pa	100 mph	870AA & 188S	564A	365AA	4.92 CMH/LMC	0.98 CMH/LMC
6	1223 Pa	100 mph	770AA & 188S	564A	365AA	3.08 CMH/LMC	0.79 CMH/LMC
7	1223 Pa	100 mph	770AA & 388S	564A	365AA	0.68 CMH/LMC	0.70 CMH/LMC
8	1223 Pa	100 mph	475AA & 388S	564A	365AA	0.59 CMH/LMC	0.64 CMH/LMC
1	1912 Pa	125 mph	D-0608	564A	None	59.87 CMH/LMC	0.99 CMH/LMC
2	1912 Pa	125 mph	188S	564A	None	55.09 CMH/LMC	1.37 CMH/LMC
3	1912 Pa	125 mph	388S	564A	None	1.38 CMH/LMC	1.09 CMH/LMC
4	1912 Pa	125 mph	475AA & 188S	564A	365AA	4.66 CMH/LMC	0.93 CMH/LMC
5	1912 Pa	125 mph	870AA & 188S	564A	365AA	11.01 CMH/LMC	1.11 CMH/LMC
6	1912 Pa	125 mph	770AA & 188S	564A	365AA	5.49 CMH/LMC	0.89 CMH/LMC
7	1912 Pa	125 mph	770AA & 388S	564A	365AA	1.02 CMH/LMC	0.79 CMH/LMC
8	1912 Pa	125 mph	475AA & 388S	564A	365AA	0.85 CMH/LMC	0.74 CMH/LMC

CMH/LMC (m³ / h.m) = Cubic Metres per Hour / Linear Metre of frame Crack

The first block of three tests are detailed in Exova warringtonfire WF Assessment Report No 193454 Issue 6 covering the smoke leakage and fire resistance performance of doorsets incorporating 188S, 388S and 488S smoke seals, if tested in accordance with BS EN 1634-1 and BS EN 1634-3. Copy available upon request.

The second block of seven tests were a series of ambient temperature air leakage tests in accordance with BS EN 1634-3:2004, on a range of smoke seals fitted to a single-acting, single-leaf doorset undertaken at Bodycote warringtonfire Testing. Copy of WF Report No 185149 available upon request.

The final five blocks of eight tests were achieved in indicative air tests undertaken at Exova Willenhall, a UKAS accredited Testing Laboratory in 2016, copy of Test Report WIL 360275 Issue 4 available upon request. The eight sets of seals were tested on a single inward opening door at air pressures of 76 Pa, 306 Pa, 688 Pa, 1223 Pa and 1912 Pa in both negative and positive pressure.

To calculate the air leakage through a door first measure the frame crack. For example, a single door 2 metres high x 1 metre wide would have a frame crack of 6 metres. Then multiply the CMH/LMC figure (in the far right hand column of the table above) by 6. This gives you the total air leakage for that doorset for each system, under both negative and positive pressure.

Negative pressure tests are the more onerous, and leakage rates are generally higher under negative pressure. Zero uses the following definitions of positive pressure and negative pressure.

Positive pressure (air infiltration) - where high pressure pushes the door against the seals. For example, external outward opening doors with panic exit devices.

Negative pressure (air exfiltration) - where high pressure pushes the door away from the seals. For example, computer rooms, halon systems, hotel bedroom doors etc.

ZERO AIR CONTROL SYSTEMS - US TESTING

PASCALS (Pa)	WIND VELOCITY (MPH)	PRESSURE (INCHES WATER)	PRESSURE (POS/NEG)	PRODUCT TESTED				LEAKAGE RATE (CFM/LFC)	LEAKAGE RATE (CMH/LMC)
				SYSTEM #	FRAME SEAL	THRESHOLD	DROPSEAL		
76 Pa	25 mph	0.31 inches	Negative	Z-1	475	565	365	0.02 CFM/LFC	0.11 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	A	328	565	361	0.03 CFM/LFC	0.17 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	B	770	565	361	0.04 CFM/LFC	0.22 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-5	475	None	365	0.05 CFM/LFC	0.28 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	D	328	164	154	0.07 CFM/LFC	0.39 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-2	370	565	365	0.07 CFM/LFC	0.39 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-3	770	565	365	0.09 CFM/LFC	0.50 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-4	328/119WB	565	365	0.12 CFM/LFC	0.67 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	E	328	164	361	0.17 CFM/LFC	0.96 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	F	318	564	351	0.25 CFM/LFC	1.41 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	SM-11	8144/8770	None	355	0.27 CFM/LFC	1.52 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	G	312	565	351	0.35 CFM/LFC	1.97 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-6	370	None	365	0.47 CFM/LFC	2.62 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	H	870	565	361	0.50 CFM/LFC	2.82 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-7	770	None	365	0.55 CFM/LFC	3.06 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-8	328	None	365	0.59 CFM/LFC	3.29 CMH/LMC
76 Pa	25 mph	0.31 inches	Negative	Z-9	98	None	365	0.98 CFM/LFC	5.46 CMH/LMC
76 Pa	25 mph	0.31 inches	Positive	K	None	None	None	11.36 CFM/LFC	63.28 CMH/LMC
100 Pa	28 mph	0.40 inches	Negative	ZSS-1	188S	Taped	None	0.09 CFM/LFC	0.49 CMH/LMC
100 Pa	28 mph	0.40 inches	Negative	ZSS-2	488S	Taped	None	0.09 CFM/LFC	0.49 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-12	475	565	365	0.04 CFM/LFC	0.22 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-14	328	565	361	0.06 CFM/LFC	0.33 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-15	475	655	365	0.07 CFM/LFC	0.39 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-16	770	565	361	0.07 CFM/LFC	0.39 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-17	370	565	365	0.08 CFM/LFC	0.45 CMH/LMC
150 Pa	35 mph	0.60 inches	Positive	SM-18	328	164	361	0.25 CFM/LFC	1.41 CMH/LMC
306 Pa	50 mph	1.23 inches	Positive	SM-19	328	565	361	0.09 CFM/LFC	0.50 CMH/LMC
306 Pa	50 mph	1.23 inches	Positive	SM-20	770	565	361	0.11 CFM/LFC	0.62 CMH/LMC
306 Pa	50 mph	1.23 inches	Positive	Z-2	370	565	365	0.16 CFM/LFC	0.90 CMH/LMC
306 Pa	50 mph	1.23 inches	Positive	SM-21	328	164	361	0.38 CFM/LFC	2.15 CMH/LMC
306 Pa	50 mph	1.23 inches	Positive	SM-22	8144/8770	None	355	0.64 CFM/LFC	3.62 CMH/LMC
688 Pa	75 mph	2.76 inches	Positive	SM-23	8144/8770	None	355	1.39 CFM/LFC	7.85 CMH/LMC
1223 Pa	100 mph	4.91 inches	Positive	SM-24	475/119WB	564	321	0.50 CFM/LFC	2.82 CMH/LMC

CFM/LFC = Cubic Feet per Minute / Linear Foot of frame Crack
 CMH/LMC = Cubic Metres per Hour / Linear Metre of frame Crack

To calculate the air leakage through a door first measure the frame crack. For example, a single door 2 metres high x 1 metre wide would have a frame crack of 6 metres. Then multiply the CMH/LMC figure (in the far right hand column of the table above) by 6. This gives you the total air leakage for that doorset for each system.

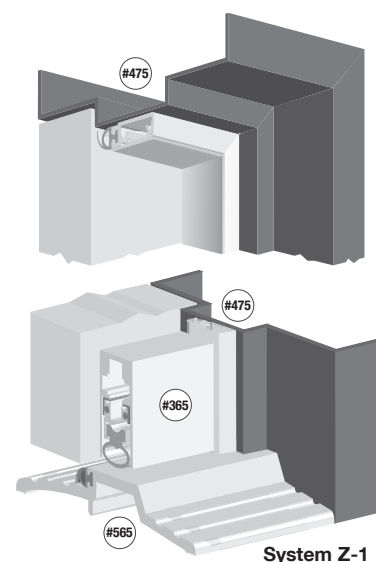
Where a threshold is shown as 'None', a flat threshold can be used as needed providing it has no sealing features e.g. 654A, 655A or 544A, 545A etc.

As can be seen from the table above, System Z-1 (in bold) performs the best (i.e. the lowest leakage rate) at 76 Pa under negative pressure. This system is illustrated diagrammatically to the right. It should be noted that seals with identical gaskets are interchangeable. Therefore 870AA frame seal can be used in place of 475AA as it offers more adjustment although it has the same gasket. Likewise 564A threshold can be used in place of 565A as it is lower and does not present a trip hazard.

Prices for seals in Set Z-1:

REF	DESCRIPTION	PRICE	UNIT
475AA	Frame seal for head & jambs (stock sizes 914mm, 1219mm, 2134mm)	£37.82	metre
870AA	Frame seal for head & jambs (stock sizes 914mm, 1219mm, 2134mm)	£76.08	metre
365AA	Dropseal 762 & 914mm for door bottom (other sizes available to suit door width)	£74.63	each
565A	Threshold for floor (stock sizes 914mm, 1219mm, 1829mm)	£100.57	metre
564A	Threshold for floor (stock sizes 914mm, 1219mm, 1829mm)	£39.52	metre

Prices for other products in the table are shown on pages 4-23.



ZERO 'SOUNDTRAP' SYSTEMS

Our featured 'SOUNDTRAP' gasketing systems can satisfy a wide range of common commercial and industrial sound-control applications for single swinging doors - as well as providing privacy behind pairs of doors for typical office applications. These are proven acoustic solutions.

SOUND TRANSMISSION CLASS (STC) TABLE

STC	PERFORMANCE	DESCRIPTION
50-60	Excellent	Loud sounds heard faintly or not at all.
40-50	Very Good	Loud speech heard faintly but not understood.
35-40	Good	Loud speech heard but hardly intelligible.
30-35	Fair	Loud speech understood fairly well.
25-30	Poor	Normal speech understood easily and distinctly.
20-25	Very Poor	Low speech audible.

Sound Transmission Class (STC) ratings indicate the ability to prevent the transfer of sound from one area to another. For example, 305mm of reinforced concrete would be rated at 56 STC, while 6mm plate glass is 26 STC.

We are often asked what is the difference between STC ratings as used in the USA and SRI-Rw (Sound Reduction Index - Weighted Reduction) ratings as used in the UK.

Sound Reduction Index - Rw - (SRI-Rw) measures the value of the barrier by recording the sound pressure levels (dB decibel rating) in both source and receiving rooms at a specific frequency. This is measured across a weighted average of 16 frequencies from 100 - 3150 Hertz. The SRI-Rw level is recorded as the difference between the two values.

Sound Transmission Classification (STC) follows the same logic but is measured across a weighted average of 16 frequencies from 125-4000 Hertz. Again, the value is the difference in average values between source and receiving rooms. The higher the value, the better is the attenuating effect of the barrier.

In summary, STC and Rw measurements are very similar - the Rw range is 100 - 3150Hz whereas the STC frequency range is 125 - 4000Hz. In reality, the numerical value of the two ratings are very often the same.

SOUNDTRAP SYSTEMS HIGH LEVEL RATING

GASKETING SYSTEM	HEAD & JAMB	THRESHOLD	DOOR BOTTOM	STC RATING
STC1	3708 & 119WB	564B	367	53 STC
STC2	770 & 119WB	564B	367	52 STC
STC3	770 & 119WB	656B	367	51 STC
STC4	170 & 119WB	564B	367	51 STC
STC5	485 & 119WB	565B	361	49 STC

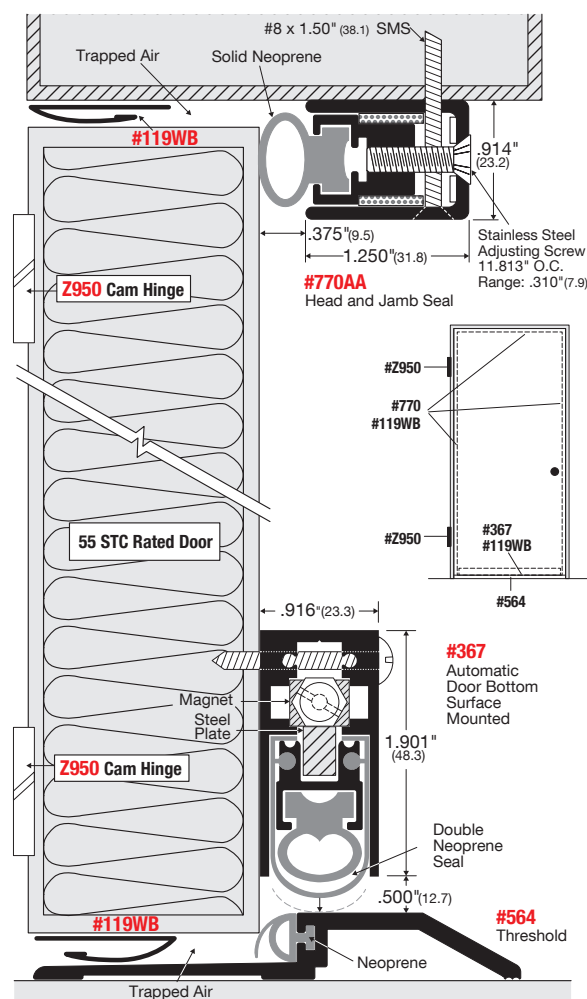
All systems tested with STC 55 Doors (rated as panels).

For technical information about acoustics, ask for a copy of 'Sound Solutions from ZERO'. Our 20-page brochure discusses the basic principles of acoustics to help define and quantify noise problems.

It explains how sound transmission through doors is measured and compared using STC - Sound Transmission Class ratings. The brochure also explains the vital role of gasketing in those assemblies and walks you through the necessary steps for practical applications.

SOUNDTRAP 52 STC SEALING SYSTEM

Our SOUNDTRAP 52 STC rated systems are designed for use with sound rated single metal doors with caset-opening frame. They provide an STC 52 rating when properly fitted with STC 55 or higher acoustic doors. That level of sound control means that loud sounds will be heard only faintly, or not at all, on the opposite side of the door, which satisfies the typical needs of recording studios, performance halls and cinemas. It is also suitable for office buildings and other commercial facilities that need to mute very loud noise originating from outside - such as the sound of aircraft overhead or heavy city traffic nearby - as well as interior equipment noise. An important component in this system, the #770 is recommended for ensuring the highest possible rating for most purposes, because it is fully adjustable.



TYPICAL EXAMPLE SETS OF ZERO ACOUSTIC SEALS

FOR SINGLE SWING DOOR 2134MM HIGH BY 914MM WIDE

EXAMPLE SET 1 - 50 STC PLUS ▲						
FRAME	1 No.	770AA	914mm adjustable seal	(head)	£111.96	£111.96
	2 No.	770AA	2134mm adjustable seals	(jambs)	£261.39	£522.78
THRESHOLD	1 No.	564A	914mm aluminium threshold with gasket	(floor)	£36.12	£36.12
DOOR BOTTOM	1 No.	367AA	914mm auto door bottom surface pattern	(dropseal)	£155.62	£155.62
DOOR SURROUND	2 No.	119WB	914mm spring seals	(head & floor)	£10.99	£21.98
	2 No.	119WB	2134mm spring seals	(jambs)	£25.65	£51.30
SET TOTAL					£899.76	

EXAMPLE SET 2 - 40 STC PLUS ▲						
FRAME	1 No.	475AA	914mm adjustable seal	(head)	£34.57	£34.57
	2 No.	475AA	2134mm adjustable seals	(jambs)	£80.71	£161.42
THRESHOLD	1 No.	564A	914mm aluminium threshold with gasket	(floor)	£36.12	£36.12
DOOR BOTTOM	1 No.	365AA	914mm auto door bottom surface pattern	(dropseal)	£74.63	£74.63
DOOR SURROUND	2 No.	119WB	914mm spring seals	(head & floor)	£10.99	£21.98
	2 No.	119WB	2134mm spring seals	(jambs)	£25.65	£51.30
SET TOTAL					£380.02	

FOR PAIRS OF DOORS 2134MM HIGH BY 1829MM WIDE

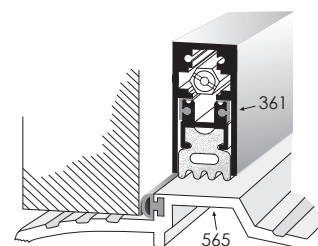
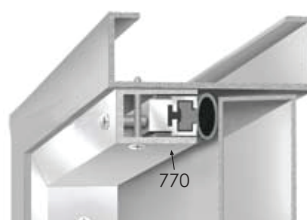
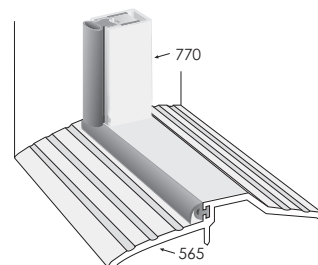
EXAMPLE SET 3 - DOUBLE DOOR 30 STC PLUS ▲						
FRAME	1 No.	475AA	1829mm adjustable seal	(head)	£69.17	£69.17
	2 No.	475AA	2134mm adjustable seals	(jambs)	£80.71	£161.42
THRESHOLD	1 No.	564A	1829mm aluminium threshold with gasket	(floor)	£72.28	£72.28
MEETING STILE	1 No.	383AA	2134mm meeting stile seal with neoprene	(stile)	£91.98	£91.98
DOOR BOTTOM	2 No.	365AA	914mm auto door bottoms surface pattern	(dropseal)	£74.63	£149.26
DOOR SURROUND	2 No.	119WB	914mm spring seals	(floor)	£10.99	£21.98
	1 No.	119WB	1829mm spring seal	(head)	£21.98	£21.98
	2 No.	119WB	2134mm spring seals	(jambs)	£25.65	£51.30
SET TOTAL					£639.37	

▲ Ratings achievable when used with a suitable door blank. Please note the rating of a door blank cannot be increased by adding seals. The addition of seals will simply reduce the amount of sound passing through the doorset. By adding the correct Zero acoustic seals it is generally possible to achieve ratings of only 1-2 STC beneath that of the door blank itself.

SOUND - SINGLE DOORS						
SYSTEM #	DOOR RATING	DOOR TYPE	HEAD & JAMB	DOOR BOTTOM	THRESHOLD	STC
STC1	55	METAL	3708 + 119WB	367	564B	53
STC2	55	METAL	770 + 119WB	367	564B	52
STC3	55	METAL	770 + 119WB	367	656B	51
STC4	55	METAL	170 + 119WB	367	564B	51
STC5	55	METAL	485 + 119WB	361	565B	49
1T	52	METAL	770	367	564A	47
9R	46	METAL	375	367	164	45
2T	52	METAL	870	361	565	44
2U	52	METAL	485	361	565	44
1R	51	METAL	770	361	565	44
2J	51	METAL	770	362 or 352	NONE	44
4R	51	METAL	370	361	565	43
5S	52	METAL	328	361	565	42
5T	52	METAL	312	351	565	42
11R	46	METAL	375	361 + 119WB	164	42
GP397	42	WOOD	475 + 119WB	369	NONE	41
7R	51	METAL	328	351	663	40
GP394	40	METAL	8145S + 119WB	369	NONE	40
10R	46	METAL	375	361	164	39
KD421	39	METAL	118FS	369	NONE	38
7J	51	METAL	475	362	NONE	37
12R	38	WOOD	188S	NONE	564A	37
SU229	38	WOOD	188S	NONE	564A	37
13R	38	WOOD	188S	254 + 839	544A	36
14R	38	WOOD	475	364 or 365	544A	36
15R	36	WOOD	188S + 119WB	NONE	564A	35
TR298	35	WOOD	188S	253	1685R	35
LG302	36	WOOD	188S	369	NONE	35
-	52	METAL	NONE	NONE	NONE	21

SOUND - DOUBLE DOORS				
SYSTEM #	HEAD & JAMB	DOOR BOTTOM	MEETING STILE	STC
RM1	770	367 or 364	383 / 139 / 118B	47
JD6S	770	362	40	41
JD7S	475	362	40 / 40	41
JD8S	475	362	156 / 56	36
AT4	188 + 119WB	564	383	36+*
AT5	485 + 119WB	564	383	35+*
AT7	485 + 119WB	839 / 544	383	35+*

* TESTED WITH 37 STC DOOR (119WB FOR HINGE SIDE ONLY)



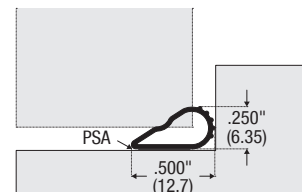
ZERO PART E ACOUSTIC SEALS

UK Buildings Regulations give minimum performance standards for acoustic door ratings in dwellings and public buildings. Approved Document Part E, stipulates a performance requirement of 29 Rw as being the standard requirement for doorsets in dwellings, flats and all rooms for residential purposes. Furthermore schools and particularly music rooms in schools are covered in the regulations. The Soundtrap Systems shown in this catalogue can easily meet these requirements with generous safety factors depending on the system chosen. However to meet the basic requirement we highlight a selection of sets that we feel offers simple economic solutions to satisfying this sector.

All sets independently tested to BS EN ISO 140-3:1995 sound insulation tests by UKAS accredited laboratory. The University of Salford Test Report No 132-1 refers. Other sets tested included 564A with 388S which achieved 36 Rw and 322A to all four sides of the frame which achieved 41 Rw.

SET A1 SEALS 31 Rw					
FRAME	1 No.	188S	914mm long (head)	£3.67	£3.67
	2 No.	188S	2134mm long (sides)	£8.57	£17.14
THRESHOLD	1 No.	564A	914mm long (floor)	£36.12	£36.12
SET TOTAL				£56.93	

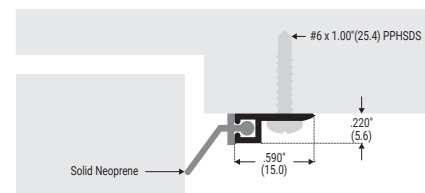
This set comprises of the 188S self-adhesive silicone teardrop frame seal fitted to head and sides, and 564A aluminium threshold with neoprene gasket fitted to the floor.
Typical set to suit single door 2134mm high x 914mm wide.



188S

SET B1 SEALS 36 Rw					
FRAME	1 No.	8302AA	914mm long (head)	£15.61	£15.61
	2 No.	8302AA	2134mm long (sides)	£36.45	£72.90
THRESHOLD	1 No.	564A	914mm long (floor)	£36.12	£36.12
SET TOTAL				£124.63	

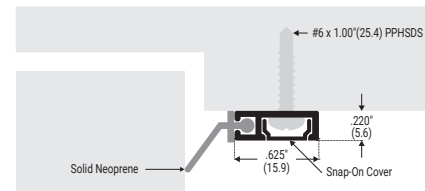
This set comprises of the 8302AA surface fixing flipper frame seal fitted to head and sides, and 564A aluminium threshold with neoprene gasket fitted to the floor.
Typical set to suit single door 2134mm high x 914mm wide.



8302AA

SET B2 SEALS 36 Rw					
FRAME	1 No.	8877AA	914mm long (head)	£24.14	£24.14
	2 No.	8877AA	2134mm long (sides)	£56.36	£112.72
THRESHOLD	1 No.	564A	914mm long (floor)	£36.12	£36.12
SET TOTAL				£172.98	

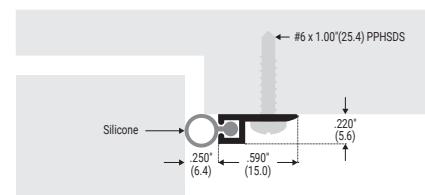
This set comprises of the 8877AA concealed fixing flipper frame seal fitted to head and sides, and 564A aluminium threshold with neoprene gasket fitted to the floor.
Typical set to suit single door 2134mm high x 914mm wide.



8877AA

SET C1 SEALS 38 Rw					
FRAME	1 No.	8303AA	914mm long (head)	£15.61	£15.61
	2 No.	8303AA	2134mm long (sides)	£36.45	£72.90
THRESHOLD	1 No.	564A	914mm long (floor)	£36.12	£36.12
SET TOTAL				£124.63	

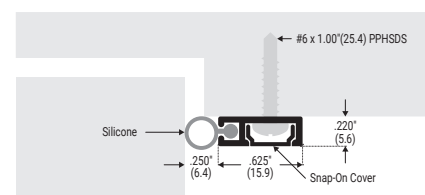
This set comprises of the 8303AA surface fixing bulb frame seal fitted to head and sides, and 564A aluminium threshold with neoprene gasket fitted to the floor.
Typical set to suit single door 2134mm high x 914mm wide.



8303AA

SET C2 SEALS 38 Rw					
FRAME	1 No.	8878AA	914mm long (head)	£24.14	£24.14
	2 No.	8878AA	2134mm long (sides)	£56.36	£112.72
THRESHOLD	1 No.	564A	914mm long (floor)	£36.12	£36.12
SET TOTAL				£172.98	

This set comprises of the 8878AA concealed fixing bulb frame seal fitted to head and sides, and 564A aluminium threshold with neoprene gasket fitted to the floor.
Typical set to suit single door 2134mm high x 914mm wide.



8878AA

ZEROPLUS DNP SWING DOOR PROFILE

Meeting stile seal for double or single swing doors. The aluminium profile that secures the seal is pre-drilled to accept screws. Standard lengths 2240mm and 2500mm. The seal is available in three widths to suit different door thicknesses. Please note that the seal projects less as it gets flatter when it is used on thicker doors. The fin on the seal may be mounted inside or outside the profile to ensure a good seal. Please see selection tables below. It may be used singly or in pairs. Not fire rated.

WHICH SEAL TO USE?

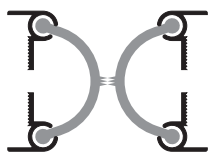
For door thicknesses 32mm to 40mm: use 55mm wide profile.

For door thicknesses 40mm to 50mm: use 60mm wide profile.

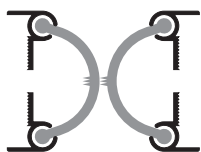
For door thicknesses 50mm to 60mm: use 75mm wide profile.

WHY THREE MOUNTING METHODS ON PAIRS OF DOORS?

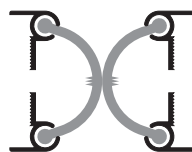
(two strips illustrated)



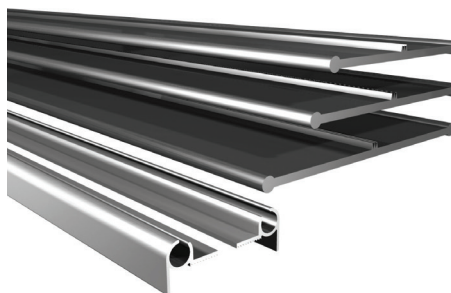
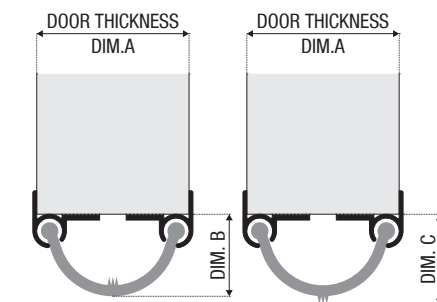
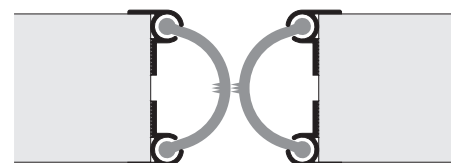
Fin/Fin
Maximum gap



Fin one profile only
Medium gap



No fins
Minimum gap



55MM WIDE PROFILE						
DOOR THICKNESS DIM. A	32MM	36MM	38MM	40MM	-	-
Projection (no fin) Dim. B	24mm	23mm	22mm	21mm	-	-
Projection (with fin) Dim. C	25mm	24mm	23mm	22mm	-	-
60MM WIDE PROFILE						
DOOR THICKNESS DIM. A	40MM	42MM	44MM	46MM	50MM	-
Projection (no fin) Dim. B	25mm	24mm	23mm	22mm	20mm	-
Projection (with fin) Dim. C	26mm	25mm	24mm	23mm	21mm	-
75MM WIDE PROFILE						
DOOR THICKNESS DIM. A	50MM	52MM	54MM	56MM	58MM	60MM
Projection (no fin) Dim. B	30mm	29mm	28mm	27mm	26mm	25mm
Projection (with fin) Dim. C	31mm	30mm	29mm	28mm	27mm	26mm

REF	LENGTH	PRICE	UNIT	BOX QTY
DNP55-2240MM	2240mm	£43.08	each strip	10
DNP60-2240MM	2240mm	£43.87	each strip	10
DNP75-2240MM	2240mm	£45.72	each strip	10

REF	LENGTH	PRICE	UNIT	BOX QTY
DNP55-2500MM	2500mm	£48.10	each strip	10
DNP60-2500MM	2500mm	£48.98	each strip	10
DNP75-2500MM	2500mm	£51.09	each strip	10

PUSH-IN DOOR SILENCERS



Door silencer for metal doors, grey rubber.

Push-in type.

Supplied in packs of 100 only.

12.7mm diameter circular to suit 3.2mm frame gaps.

Conforms to ANSI L03011.

Z608R Grey rubber silencer - metal frames

£12.49 pack (Pack Qty 100)



Door silencer for timber doors, grey rubber.

Push-in type.

Supplied in packs of 100 only.

9.5x19mm oval to suit 3.2mm frame gaps.

Conforms to ANSI L03021.

Z609R Grey rubber silencer - timber frames

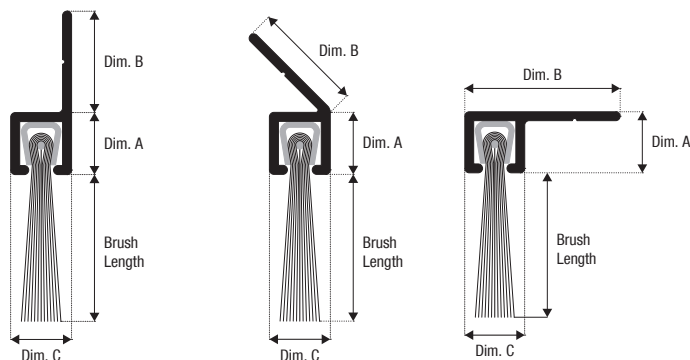
£18.74 pack (Pack Qty 100)

BRUSH STRIP SEALS

Available in three aluminium sections (180°, 45° and 90°), each in six different sizes. Standard lengths are 2000mm, 2500mm and 3000mm. The aluminium fixing carrier is supplied silver mill finish and the filament is type 6 black nylon. It is hard wearing with a working temperature from -40°C to +100°C. The brush can also be supplied without the aluminium fixing carrier if required (see cam strips on opposite page). The brush length sizes quoted are the mm of brush strip protruding out of the aluminium carrier.

All sections can be cut to length using a fine tooth saw. It is important that the galvanised steel channel which houses the nylon brush is then sealed to avoid filament loss. This can be achieved by pinching the end of the channel with pliers or wire cutters. All seals should be fitted with the door in the closed position, so that the brush filaments are in firm contact with the mating surface. Care should be taken not to overflex the trim against the mating surface.

Corrosion: These brush strips have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



180° STANDARD CARRIER

45° ANGLE CARRIER

90° RIGHT ANGLE CARRIER

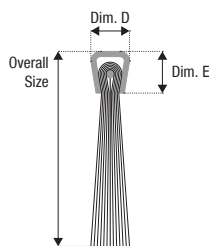
SECTION	DIM. A	DIM. B	DIM. C	BRUSH LENGTH OPTIONS									
180° STANDARD UPRIGHT CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM													
NO.1/180	5.3mm	10.5mm	5.2mm	8MM £9.35	10MM £9.35	12MM £9.35	15MM £9.58	-	-	-	-	-	-
NO.2/180	7mm	11mm	6.7mm	15MM £10.70	20MM £11.57	26MM £12.47	34MM £14.07	50MM £15.38	-	-	-	-	-
NO.3/180	8.4mm	13.6mm	8mm	17MM £12.66	20MM £13.35	26MM £14.80	34MM £17.87	40MM £19.02	44MM £19.95	50MM £20.99	75MM £22.12	100MM £28.64	-
NO.4/180	11mm	18mm	10.8mm	26MM £15.97	43MM £24.45	50MM £27.94	80MM £36.80	102MM £48.16	-	-	-	-	-
NO.5/180	13mm	20mm	13mm	46MM £33.31	50MM £34.04	66MM £36.68	80MM £43.23	102MM £57.60	125MM £55.97	150MM £64.63	180MM £72.47	-	-
NO.6/180	19mm	50mm	18mm	210MM £117.57	250MM £134.25	300MM £175.86	-	-	-	-	-	-	-
45° ANGLE CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM													
NO.1/45	5.6mm	12mm	5.2mm	8MM £9.35	10MM £9.35	12MM £9.35	15MM £9.58	-	-	-	-	-	-
NO.2/45	7.2mm	16mm	7.2mm	15MM £10.70	20MM £11.57	26MM £12.47	34MM £14.07	50MM £15.38	-	-	-	-	-
NO.3/45	8.4mm	20mm	8mm	17MM £12.66	20MM £13.35	26MM £14.80	34MM £17.87	40MM £19.02	44MM £19.95	50MM £20.99	75MM £22.12	100MM £28.64	-
NO.4/45	10.5mm	27mm	11mm	26MM £15.97	43MM £24.45	50MM £27.94	80MM £36.80	102MM £48.16	-	-	-	-	-
NO.5/45	13mm	30mm	12mm	46MM £33.31	50MM £34.04	66MM £36.68	80MM £43.23	102MM £57.60	125MM £55.97	150MM £64.63	180MM £72.47	-	-
NO.6/45	19mm	50mm	17.9mm	210MM £117.57	250MM £134.25	300MM £175.86	-	-	-	-	-	-	-
90° RIGHT ANGLE CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM													
NO.1/90	6mm	15mm	5.2mm	8MM £9.35	10MM £9.35	12MM £9.35	15MM £9.58	-	-	-	-	-	-
NO.2/90	6.8mm	17.3mm	7.2mm	15MM £10.70	20MM £11.57	26MM £12.47	34MM £14.07	50MM £15.38	-	-	-	-	-
NO.3/90	8.5mm	22.6mm	8mm	17MM £12.66	20MM £13.35	26MM £14.80	34MM £17.87	40MM £19.02	44MM £19.95	50MM £20.99	75MM £22.12	100MM £28.64	-
NO.4/90	11mm	28mm	11mm	26MM £15.97	43MM £24.45	50MM £27.94	80MM £36.80	102MM £48.16	-	-	-	-	-
NO.5/90	14mm	35mm	13mm	46MM £33.31	50MM £34.04	66MM £36.68	80MM £43.23	102MM £57.60	125MM £55.97	150MM £64.63	180MM £72.47	-	-
NO.6/90	19mm	69mm	17.9mm	210MM £117.57	250MM £134.25	300MM £175.86	-	-	-	-	-	-	-

Cut lengths - List prices plus 15% pro rata. Minimum charge is 2000mm length (i.e. a 1000mm can be supplied but it will be charged as a 2000mm length). Longer brushes are available to special order with No.6 section, maximum length 500mm.

CAM STRIP BRUSH SEALS

Zero cam strip is available in six sections with over 30 trim lengths, and is used where an aluminium fixing carrier (on opposite page) is not required. Standard lengths are 2000mm, 2500mm and 3000mm. The brush filaments are extruded from type 6 nylon and are hard wearing with a good memory.

They have a working temperature range from -40°C to +100°C. The standard backing material is electro galvanised steel, but stainless steel is available on request and to special order.



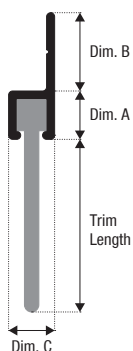
Note: the trim size quoted is the overall size of cam strip.

SECTION	DIM. D	DIM. E	TRIM SIZE OPTIONS (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM								
CS NO.1	2.5mm	4mm	12MM £7.49	14MM £7.49	16MM £7.49	19MM £7.68	-	-	-	-	-
CS NO.2	4mm	5mm	20MM £8.54	25MM £9.23	32MM £9.95	40MM £11.26	56MM £12.30	-	-	-	-
CS NO.3	5mm	7mm	24MM £10.13	27MM £10.68	33MM £11.84	40MM £14.09	46MM £15.22	50MM £15.95	56MM £16.82	81MM £17.69	106MM £22.92
CS NO.4	6mm	8mm	33MM £12.79	51MM £19.57	57MM £22.35	87MM £29.45	109MM £38.55	-	-	-	-
CS NO.5	8mm	11mm	57MM £26.63	61MM £27.25	77MM £29.35	91MM £34.57	113MM £46.07	136MM £44.82	161MM £51.45	191MM £57.96	-
CS NO.6	11.5mm	15mm	225MM £112.74	265MM £124.96	315MM £155.35	-	-	-	-	-	-

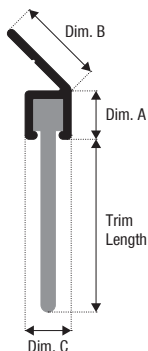
Cut lengths - List prices plus 15% pro rata. Minimum charge is 2000mm length (i.e. a 1000mm can be supplied but it will be charged as a 2000mm length).

EPDM RUBBER WIPER SEALS

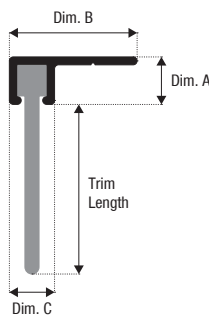
A range of rubber weather seals to suit numerous applications. To complement our range of brush seals we are able to offer an EPDM rubber insert with our No.3 section aluminium carrier. These ideally are designed for fitting to "up and over" garage doors but can also be used for a wide range of other applications i.e. roller shutters, sectionals etc or where brush seals are unsuitable i.e. water ingress situations.



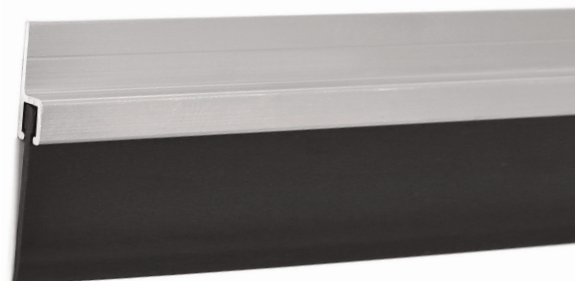
180° STANDARD CARRIER



45° ANGLE CARRIER



90° RIGHT ANGLE CARRIER



FEATURES

- Available in 3 aluminium carriers 90°, 180° and 45°.
- Two trim lengths available i.e. 30mm and 55mm out of carrier.
- No.3 aluminium carrier only.
- Standard lengths are 2000mm, 2500mm and 3000mm.
- Ideal seal for top and bottom of garage doors and roller shutters.

SECTION	DIM. A	DIM. B	DIM. C	TRIM LENGTH OPTIONS	
180° STANDARD UPRIGHT CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM					
R3/180	8.4mm	13.6mm	8mm	30MM £17.61	55MM £18.75
45° ANGLE CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM					
R3/45	8.4mm	20mm	8mm	30MM £17.61	55MM £18.75
90° RIGHT ANGLE CARRIER (LIST PRICES PER METRE). STOCK SIZES 2000MM, 2500MM AND 3000MM					
R3/90	8.5mm	22.6mm	8mm	30MM £17.61	55MM £18.75

Cut lengths - List prices plus 15% pro rata. Minimum charge is 2000mm length (i.e. a 1000mm can be supplied but it will be charged as a 2000mm length).

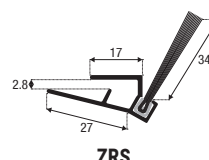
ROLLER SHUTTER SEALS

ROLLER SHUTTER ROLLER SEAL

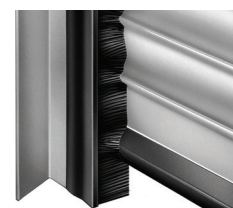
ZRS Zero Roller Seal is a clip-on PVCu carrier with brush insert for roller shutter door guide channels. It has no mechanical fixings and is simple to fix. Its low friction does not impede the smooth operation of roller doors.

ZRS effectively seals profiled door sections by independent movement of brush filaments, and it prevents draughts and door vibrations etc. It is supplied in 3 metre lengths. The brush projection out of the carrier is 34mm.

ZRS	3 metre length	£53.46	length
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ZRS



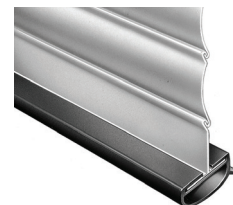
ROLLER SHUTTER D-SECTION BUMPER STRIP / WRAP AROUND SEAL

ZBS Zero Bumper Strip is a neoprene "D" section with a flipper seal. It fits over the bottom T section (usually 75mm) of standard roller shutters and seals the gap between the floor and shutter. No mechanical fixings are required. Supplied in coils of 5 metres, 10 metres and 20 metres. Standard colour black.

ZBS.5	5 metre coil	£94.42	coil
ZBS.10	10 metre coil	£188.87	coil
ZBS.20	20 metre coil	£377.72	coil



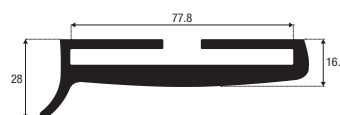
ZBS



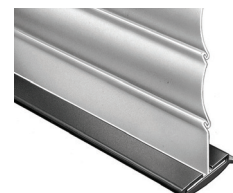
ROLLER SHUTTER FLAT SECTION BUMPER STRIP

New alternative ZRB flat section Bumper Strip with a flipper seal. It fits over the bottom T section (usually 75mm) of standard roller shutters and seals the gap between the floor and shutter. No mechanical fixings are required. Supplied in coils of 10 metres, 20 metres and 40 metres. Standard colour black.

ZRB.10N	10 metre coil	£192.89	coil
ZRB.20N	20 metre coil	£385.99	coil
ZRB.40N	40 metre coil	£771.98	coil



ZRB



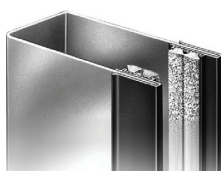
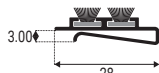
INSULATED ROLLER SHUTTER SEALS

INSULATED ROLLER SHUTTER SEAL

ZIRS Zero Insulated Roller Shutter seal is a clip-on pile seal for insulated roller shutter guide channels. It is simple to fit and no mechanical fixings are required. The low coefficient of friction assists the smooth operation of insulated roller shutter doors, and prevents draughts and door vibration. Black plastic carrier with grey pile seal. Two simple designs: flat edge and bevel edge.

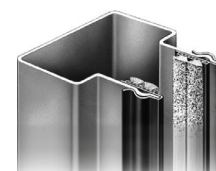
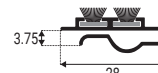
ZIRS

Clip on PVC carrier.
Flat edge.
3000mm long.
28mm wide.
£19.35 each



ZIRS/A

Clip on PVC carrier.
Bevel edge.
3200mm long.
28mm wide.
£20.89 each

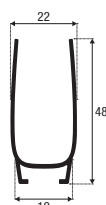


INSULATED ROLLER SHUTTER BUMPER STRIP

Designed for insulated roller shutter doors without 75mm Tee at bottom. There is a choice between two bottom channels which attach to the bottom of the insulated roller shutter door. ZIDCC is a clip on channel which attaches without fixings, whereas ZIDUC requires pop riveting to the bottom of the door. The black rubber gasket slides simply into the channel.

ZIDCC

Clip on PVC carrier.
3000mm long.
22mm wide at top.
48mm deep.
Mating fit with ZIDR23 below.
£20.96 per length



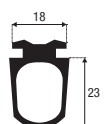
ZIDUC

Rivet fix galvanised steel carrier.
3000mm long.
25mm wide.
10mm deep.
Mating fit with ZIDR23 below.
£23.96 per length



ZIDR23

Elongated EPDM section.
50 metre coil.
19mm wide
23mm deep out of carrier.
Mating section 18mm wide.
£272.54 per coil
Cut lengths - List prices plus 15% pro rata.





FOLDING SHUTTER SEALS

Individually assembled kits designed to seal most makes of concertina folding shutter doors. Each kit contains four pre-cut and punched lengths of No.3 section brush strip and one specially formed nose piece suitable for sealing the top or bottom of one pair of panels. Kits can be supplied with brush strip trims of 20mm, 34mm and 50mm. All products are aluminium, silver mill finish. Brushes are black.

INSTALLATION

Most installations require that each panel should be sealed half on the inside and half on the outside. Seals should be fitted with the door in the closed position. In all cases the nose pieces should be fitted first to the outside of the door and the straight sections fitted on alternate sides of each panel with the outside piece butting up to the nose cone and the inside piece butting up to the back picket. The door should be opened and closed from time to time during fitting to ensure free running is maintained.

TYPES

When ordering please advise make of door (nose cone style), size of panels, number of single panels, depth of gap to be sealed, and if bottom only or bottom and top are being sealed.

There are four different nose cones to suit different manufacturers' panels:

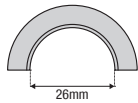
TYPE 1	Kenson, Priory, Stanley, Martin Roberts.				
TYPE 2	Acme, Bond, Bostwick, Brody, Brooks, Denison Kett, Mercian, Potter Rax, Haskins, Pollard.				
TYPE 3	Bolton, Henderson, Syston				
TYPE 4	Westland				

	20MM TRIM		34MM TRIM		50MM TRIM	
KITS FOR 152MM PANELS (6")	T1/152/20	£22.73 kit	T1/152/34	£27.07 kit	T1/152/50	£34.25 kit
	T2/152/20		T2/152/34		T2/152/50	
	T3/152/20		T3/152/34		T3/152/50	
	T4/152/20		T4/152/34		T4/152/50	
KITS FOR 229MM PANELS (9")	T1/229/20	£26.70 kit	T1/229/34	£32.06 kit	T1/229/50	£40.40 kit
	T2/229/20		T2/229/34		T2/229/50	
	T3/229/20		T3/229/34		T3/229/50	
	T4/229/20		T4/229/34		T4/229/50	
KITS FOR 305MM PANELS (12")	T1/305/20	£33.60 kit	T1/305/34	£39.47 kit	T1/305/50	£48.65 kit
	T2/305/20		T2/305/34		T2/305/50	
	T3/305/20		T3/305/34		T3/305/50	
	T4/305/20		T4/305/34		T4/305/50	
NOSE PIECE ONLY	T1/20MM	£10.62 each	T1/34MM	£12.06 each	T1/50MM	£14.08 each
	T2/20MM		T2/34MM		T2/50MM	
	T3/20MM		T3/34MM		T3/50MM	
	T4/20MM		T4/34MM		T4/50MM	

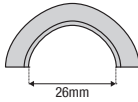
Each kit comprises one nose piece and four pieces of pre-punched No.3 section (180 degree standard carrier) of the appropriate length and trim. If you imagine the "V" of a concertina door, this will suit two panels, bottom only. If you wish to seal both top and bottom you will require two kits.



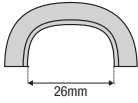
NOSE CONE STYLES



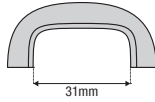
TYPE 1



TYPE 2



TYPE 3



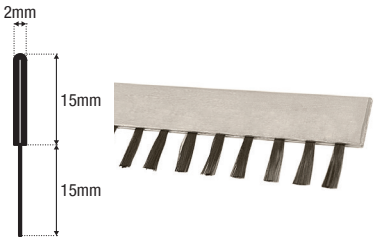
TYPE 4

ANTI-STATIC BRUSHES

Anti-static brushes are ideal for reducing static build up and discharging static energy through the aluminium backing to earth. They fit within 1-2mm of the electric static charge. There are two types available; one with carbon fibre anti-static brushes (ref ZASCF) and the other with stainless steel yarn anti-static brushes (ref ZASSS). Both types are supplied in 1 metre lengths with a 15mm trim and have integral backing tape.

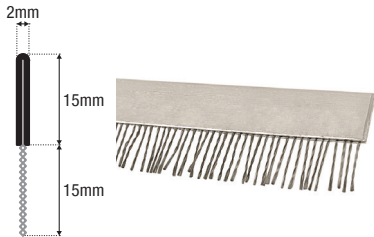
ZASCF

Anti-static brush.
15mm trim.
Carbon fibre brush.
With integral backing tape.
Available 1 metre length only.
£109.19 metre



ZASSS

Anti-static brush.
15mm trim.
Stainless steel yarn.
With integral backing tape.
Available 1 metre length only.
£109.19 metre



Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

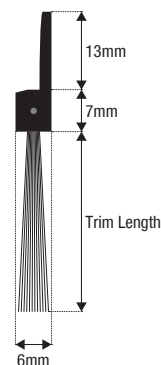
FLEXIBLE BRUSH STRIP SEALS

In response to customer requests for a flexible brush strip that can be fitted to radius doors and surfaces, we have introduced a new range of flexible brush strip seals. They adapt easily to different shapes thanks to their flexible profile. They can be used for multiple applications which include sealing, guiding, wiping, slowing down and pressing.

Available in two different profiles; "H" surface fixing profile of 180° standard carrier for fitting to the face of the door and "C" clip on profile for clipping onto sheet metal. Each profile is currently available in one size only. However there are four different brush sizes which fit into the profiles - 20mm, 30mm, 40mm and 50mm trim lengths. This dimension is the length of the brush trim out of the carrier (projection).

The sturdy plastic fixing carrier is supplied matt black as standard, and the filament is Type 6 black nylon. It is UV and ozone resistant, chemical resistant and resistant to temperatures from -40°C to +125°C. Both profiles can be cut to size on site using wire cutters or a fine toothed saw. There are no fixing holes in either profile as this gives the option to fix with glue or drill through the profile on site and fix with screws ("H" profile only). The "C" profile clips onto sheet metal 2.5mm thick.

These new seals are available in 25 metre coils or cut to length; standard sizes 1000mm, 2000mm, 2500mm and 3000mm.

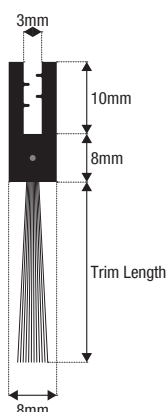


"H" PROFILE 180° STANDARD CARRIER



REF	DESCRIPTION	TRIM LENGTH	PRICE PER METRE	PRICE PER 25M COIL
BLACK PLASTIC 180° STANDARD UPRIGHT CARRIER WITH BLACK NYLON BRUSH				
ZH20	"H" profile flexible seal, 20mm trim length	20mm	£13.47 metre	£292.86 coil
ZH30	"H" profile flexible seal, 30mm trim length	30mm	£13.78 metre	£299.51 coil
ZH40	"H" profile flexible seal, 40mm trim length	40mm	£14.08 metre	£306.16 coil
ZH50	"H" profile flexible seal, 50mm trim length	50mm	£14.54 metre	£316.14 coil

Cut lengths - List prices £ per metre pro rata. Maximum length 25 metres, no minimum length.



"C" PROFILE CLIP ON CARRIER



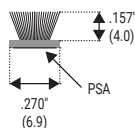
REF	DESCRIPTION	TRIM LENGTH	PRICE PER METRE	PRICE PER 25M COIL
BLACK PLASTIC CLIP ON CARRIER WITH BLACK NYLON BRUSH				
ZC20	"C" profile flexible seal, 20mm trim length	20mm	£13.47 metre	£292.86 coil
ZC30	"C" profile flexible seal, 30mm trim length	30mm	£13.78 metre	£299.51 coil
ZC40	"C" profile flexible seal, 40mm trim length	40mm	£14.08 metre	£306.16 coil
ZC50	"C" profile flexible seal, 50mm trim length	50mm	£14.54 metre	£316.14 coil

Cut lengths - List prices £ per metre pro rata. Maximum length 25 metres, no minimum length.

PILE BRUSH SEAL - WITH ADHESIVE BACKING

The 231P, 137P and 34P have a soft multifilament pile yarn on a woven reinforced translucent backing. With 2 welded clear centre fins for improved weather sealing of sliding windows and doors. They also have adhesive tape to the backing.

- Seal Applications: Windows, Window Covering Products, Entry Doors, Internal Doors, Furniture, Universal.
- Seal Fitting Type: T-slot, Universal Range

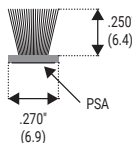


231P-BK-PSA (BLACK) 231P-GY-PSA* (GREY)

Self-adhesive brush pile with level fin.
6.9mm base x 4.0mm high.

£204.16 per 50 metre coil (£4.08 per metre)
£136.10 per 30 metre coil (£4.54 per metre)
£75.54 per 15 metre coil (£5.04 per metre)
£6.29 per metre for cut lengths less than 15 metres
(cannot guarantee continuous length for cut lengths)

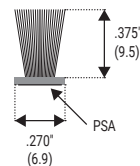
231P-GY-PSA* (GREY) available to special order
MINIMUM ORDER QUANTITIES MAY APPLY



137P-BK-PSA (BLACK) 137P-GY-PSA (GREY)

Self-adhesive brush pile with level fin.
6.9mm base x 6.4mm high.

£278.67 per 50 metre coil (£5.57 per metre)
£185.94 per 30 metre coil (£6.20 per metre)
£103.34 per 15 metre coil (£6.90 per metre)
£8.61 per metre for cut lengths less than 15 metres
(cannot guarantee continuous length for cut lengths)



34P-BK-PSA (BLACK) 34P-GY-PSA (GREY)

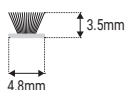
Self-adhesive brush pile with level fin.
6.9mm base x 9.5mm high.

£501.61 per 50 metre coil (£10.03 per metre)
£334.41 per 30 metre coil (£11.15 per metre)
£185.73 per 15 metre coil (£12.38 per metre)
£15.48 per metre for cut lengths less than 15 metres
(cannot guarantee continuous length for cut lengths)

PILE BRUSH SEAL - NO ADHESIVE BACKING

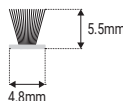
The ZPP range of pile brush seals have a high density polypropylene yarn and woven base providing a traditional sealing barrier. They are suitable for insertion into a wide range of applications.

- A range of pile heights ranging from 3.5mm to 11.0mm
- Standard base width of 4.8mm or 6.7mm
- Grey as standard
- Compatible with all materials
- Low opening and closing forces



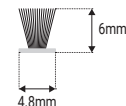
ZPP 4835

Grey brush pile.
4.8mm base x 3.5mm high.
£143.64 per 800 metre coil (18p per metre)
£0.25 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



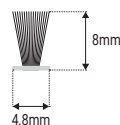
ZPP 4855

Grey brush pile.
4.8mm base x 5.5mm high.
£100.12 per 500 metre coil (20p per metre)
£0.28 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



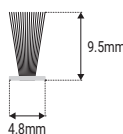
ZPP 4860

Grey brush pile.
4.8mm base x 6.0mm high.
£96.90 per 450 metre coil (22p per metre)
£0.29 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



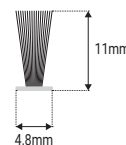
ZPP 4880

Grey brush pile.
4.8mm base x 8.0mm high.
£60.97 per 300 metre coil (20p per metre)
£0.28 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



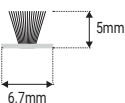
ZPP 4895

Grey brush pile.
4.8mm base x 9.5mm high.
£64.73 per 225 metre coil (29p per metre)
£0.39 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



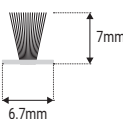
ZPP 4811

Grey brush pile.
4.8mm base x 11.0mm high.
£52.08 per 175 metre coil (30p per metre)
£0.41 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



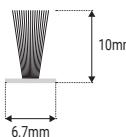
ZPP 6750

Grey brush pile.
6.7mm base x 5.0mm high.
£86.50 per 425 metre coil (20p per metre)
£0.28 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



ZPP 6770

Grey brush pile.
6.7mm base x 7.0mm high.
£73.78 per 250 metre coil (30p per metre)
£0.41 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)



ZPP 6710

Grey brush pile.
6.7mm base x 10.0mm high.
£66.27 per 200 metre coil (33p per metre)
£0.45 per metre for cut lengths
(cannot guarantee continuous length for cut lengths)

ZERO SILICONE FIN FIRE & SMOKE SEALS

A range of self-adhesive silicone fin seals to complement Zero teardrop seals 188S, 488S and 388S. The 1771S and 1772S have been developed specifically as meeting stile seals in response to requests from steel door manufacturers to solve the problem of sealing meeting stiles of pairs of doors. With Tee fins at 90 degrees, both can be fitted to either the astragal or the leading edge on a pair of doors. The 1773S and 1777S have Tee fins at 75 degrees and can be used as perimeter seals fitting into the rebate across the head and down both sides of the frame. They are all supplied with double sided backed PSA (pressure sensitive adhesive) tape and are suitable for internal and external doors. These products are currently only available in black, although they may be available in dark bronze, white and grey depending on quantity.

FIRE AND SMOKE

Following testing, all four seals have been positively assessed for use on insulated or uninsulated fire rated timber and steel doors, for a duration up to 240 minutes (depending on door construction) to BS EN 1634-1. This range has also been included in a series of smoke leakage tests and achieved the requirements of BS EN 1634-3. Copy of assessment Report 193454 available upon request.

NEW TESTING - BI-DIRECTIONAL

Following successful independent third party testing, our self-adhesive fire & smoke seals can be installed on insulated and uninsulated steel and timber based fire resisting doorsets, regardless of the exposure direction. In accordance with BS EN 1634-1 for a duration of 240 minutes for steel doorsets, and 60 minutes for timber doorsets.

We had noticed a call within the industry for evidence from both sides, so moved quickly to obtain this evidence. Now, whether the door opens towards or away from the risk of fire, our self-adhesive silicone seals can be specified with confidence.

NEW TESTING - UL94 (SELF-EXTINGUISHING)

The silicone rubber used to manufacture all of our self-adhesive silicone fire & smoke seals has now been tested to the popular flammability standard, UL94. This testing was carried out to, in particular, prove the self-extinguishing properties of our silicone.

The silicone performed exceptionally and was classified as V-0, best classification, meaning the tested material did not flame for more than 10 seconds after being burnt. In fact, in most cases flaming was much less than 10 seconds, if at all. A copy of test report 430491 is available upon request.

SILICONE PROPERTIES

Manufactured from silicone, these seals have a good resistance to acid, oil, gasoline, animal/vegetable oils and water absorption. They also have excellent resistance to ultraviolet rays, sunlight ageing, oxidation, ozone, heat ageing, heat, cold and flame.

TEMPERATURE

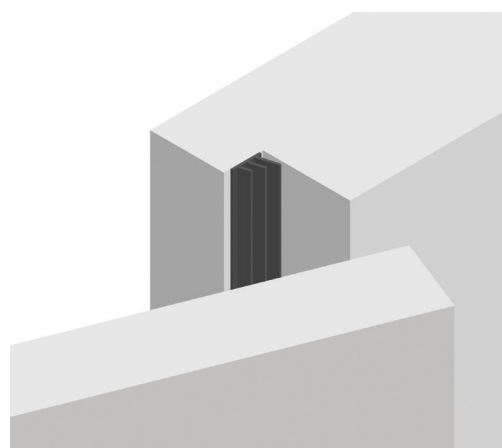
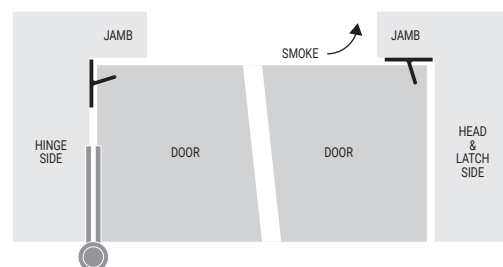
The adhesive on these fin seals will have the best end use high and low temperature adhesion if installed to a clean dry frame between 18°C - 35°C. For proper performance do not install on a frame at less than 10°C or more than 35°C. Ensure all materials are at the same temperature before bonding. These seals have a functional operating range between -40°C and +80°C. Rebound is excellent when both hot and cold.

SURFACE PREPARATION

The surfaces should be clean, dry and free of dust, grease and oil before the installation process begins. If cleaning is necessary only use a clean cloth and a solvent that is compatible with the materials, such as isopropanol (isopropyl alcohol or IPA), ethanol or methanol (methylated or surgical spirits). Make sure to check for any impediments (dust, dirt, oil, grease, etc) or loose paint and remove them from the surface area.

The surface must be completely dry before the installation process begins. We recommend that gasketing be installed after the doors and frames have been painted to the final finish and the paint has dried. Paints with plasticisers should be avoided as these can damage the adhesive layer. Paint should be dry and uniform (quick drying primers are not recommended). For application to timber frames, the painted or finished surface must be non-porous and smooth.

DO NOT STRETCH THE SEAL DURING INSTALLATION. The adhesive is designed to gradually set to a high peel strength so that immediate removal and resetting can be done if an error is made in the initial placement. Do not reset after one hour. Full set is reached in approximately 24 hours.



All the features at a glance:

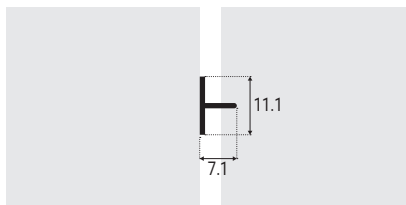
- Available in four profiles.
- To suit a range of frame gaps from 2mm to 6mm.
- Available in black only.
- Successfully **bi-directional** fire tested. Suitable for use on doors of both steel or timber construction.
- New UL94 testing, classified V-0.
- Cold smoke seals.

ZERO SILICONE FIN FIRE & SMOKE SEALS

1771S-BLK

90 degree single Tee fin, with PSA self-adhesive backing.
For astragal and meeting stile applications.

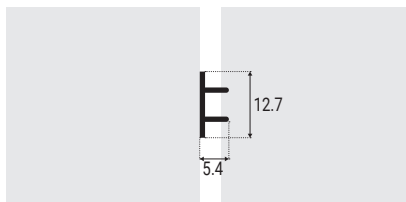
Material: Extruded silicone.
Size: 7.1mm high x 11.1mm wide.
Frame gap: Designed for 3.2mm gaps but will suit 2.5mm - 5mm frame gaps.
Coil length: 61 metres (200 feet).
Colours: Black only.
Box Qty: Packed 1 coil per box, outers of 5.



1772S-BLK

90 degree twin Tee fins, with PSA self-adhesive backing.
For astragal and meeting stile applications.

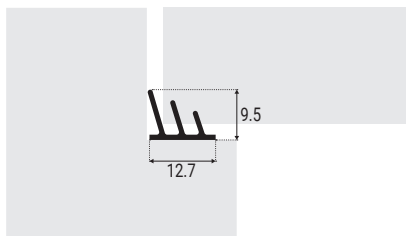
Material: Extruded silicone.
Size: 5.4mm high x 12.7mm wide.
Frame gap: Designed for 3.2mm gaps but will suit 2.5mm - 4mm frame gaps.
Coil length: 61 metres (200 feet).
Colours: Black only.
Box Qty: Packed 1 coil per box, outers of 5.



1773S-BLK

75 degree triple Tee fins, with PSA self-adhesive backing.
Perimeter seal for frame head and sides.

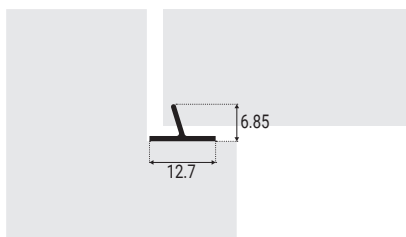
Material: Extruded silicone.
Size: 9.5mm high x 12.7mm wide.
Frame gap: To suit 3mm - 6mm frame gaps.
Coil length: 61 metres (200 feet).
Colours: Black only.
Box Qty: Packed 1 coil per box, outers of 5.



1777S-BLK

75 degree single Tee fin, with PSA self-adhesive backing.
Perimeter seal for frame head and sides.

Material: Extruded silicone.
Size: 6.85mm high x 12.7mm wide.
Frame gap: To suit 2mm - 4mm gaps.
Coil length: 61 metres (200 feet).
Colours: Black only.
Box Qty: Packed 1 coil per box, outers of 5.



REF	STYLE	WIDTH	HEIGHT	MAX GAP	COLOURS	COIL LENGTH	PRICE	UNIT	BOX QTY	OUTER QTY
1771S	90° single Tee fin	11.1mm	7.1mm	5mm	Black only	61 metres	£155.08	coil	1	5
1772S	90° twin Tee fins	12.7mm	5.4mm	4mm	Black only	61 metres	£161.55	coil	1	5
1773S	75° triple Tee fins	12.7mm	9.5mm	6mm	Black only	61 metres	£189.16	coil	1	5
1777S	75° single Tee fin	12.7mm	6.85mm	4mm	Black only	61 metres	£159.37	coil	1	5

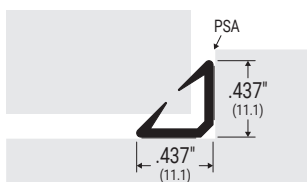
CUT LENGTHS - LIST PRICE PLUS 25% PRO-RATA. (CANNOT GUARANTEE CONTINUOUS LENGTH)

ZERO SELF-ADHESIVE WEATHERSTRIPPING

8144S-BK/WH

Wing type seal, with PSA self-adhesive backing.

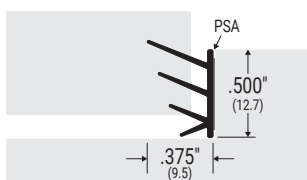
Material: Extruded silicone.
Size: 11.1mm high x 11.1mm wide.
Colours: Black, white.
Length: 2438mm long.
£31.51 each



8150S-BK

Eyelash type seal, with PSA self-adhesive backing.

Material: Extruded silicone.
Size: 9.5mm high x 12.7mm wide.
Colours: Black only.
Length: 2438mm long.
£11.03 each



ZERO SILICONE TEARDROP FIRE & SMOKE SEALS

These self-adhesive cold smoke seals have been widely used by door manufacturers for many years, particularly steel door manufacturers. All are the shape of a teardrop, hence the name. They are manufactured from silicone and are fitted in the frame stop across the head and down both sides of the door. Originally only 188S was available and this was designed to suit frame gaps of 3.2mm (1/8"). However 488S was introduced in recent years in response to the move towards smaller frame gaps. More recently 388S has been introduced to solve the problem of large frame gaps. They are all supplied with double sided backed PSA (pressure sensitive adhesive) tape.

FIRE - BRITISH STANDARDS

188S, 488S and 388S may be included on previously tested insulated or uninsulated timber and steel based doorsets without detracting from their achieved fire performance to BS 476-22:1987. Suitable for use on steel doors up to 240 minutes and timber doors up to 60 minutes. Copies of WFRC Assessment Report No WFRC No 135275 refers.

SMOKE & AIR LEAKAGE - BRITISH STANDARDS

The smoke passage and air leakage performance of 188S, 488S and 388S fully meets the requirements of relevant parts of BS 5588 and Approved Document B of the Building Regulations when tested in accordance with BS 476-31.1. "A fire door required to resist the passage of smoke at ambient temperature conditions should, when tested in accordance with BS 476-31.1 with the threshold taped and subjected to a pressure of 25 Pa, have a leakage not exceeding 3 m³/m/h". i.e. 3 cubic metres per metre of frame crack per hour. Copies of WF Test Report No 134853, 135275 and WF 185149 (EN) available upon request.

GLOBAL ASSESSMENT FIRE AND SMOKE LEAKAGE - EN STANDARDS

WF Assessment Report No 193454 presents an appraisal of the fire resistance and smoke leakage performance of previously tested timber and steel based doorsets (insulated and uninsulated) when incorporating 188S, 388S and 488S smoke seals, if tested in accordance with BS EN 1634-1 and BS EN 1634-3. Copy of WF Assessment Report No 193454 available.

It concludes that should the recommendations given in the report be followed, all three seals may be fitted to previously fire tested, insulated and uninsulated timber and steel based doorsets, if tested to BS EN 1634-1 to satisfy the insulation and integrity performance requirements, 240 minutes steel doors and 60 minutes timber doors. Furthermore it also concludes that all three seals may be fitted to doorsets required to satisfy the smoke leakage requirements of Approved Document B of the Building Regulations.

Approved Document B of the Building Regulations requires that fire resistant doorsets which are additionally required to provide a smoke sealing function shall either:

1. have a leakage rate not exceeding 3m³/m/ hour (head and jambs only) when tested at 25 Pa under BS 476 Fire tests on building materials and structures, Section 31.1 Methods for measuring smoke penetration through doorsets and shutter assemblies, Method of measurement under ambient temperature conditions; or
2. "meet the additional classification requirement of S_a when tested to BS EN 1634-3:2001 Fire resistance tests for door and shutter assemblies, Part 3 - Smoke control doors."

NEW TESTING - BI-DIRECTIONAL

Following successful independent third party testing, our self-adhesive fire & smoke seals can be installed on insulated and uninsulated steel and timber based fire resisting doorsets, regardless of the exposure direction. In accordance with BS EN 1634-1 for a duration of 240 minutes for steel doorsets, and 60 minutes for timber doorsets.

We had noticed a call within the industry for evidence from both sides, so moved quickly to obtain this evidence. Now, whether the door opens towards or away from the risk of fire, our self-adhesive silicone seals can be specified with confidence.

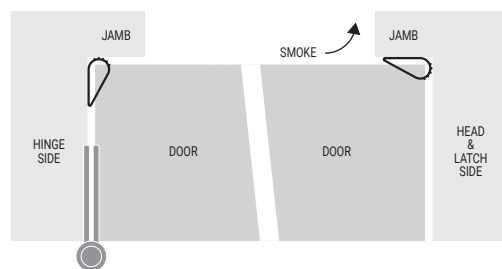
NEW TESTING - UL94 (SELF-EXTINGUISHING)

The silicone rubber used to manufacture all our self-adhesive silicone fire & smoke seals has now been tested to the popular flammability standard, UL94. This testing was carried out to, in particular, prove the self-extinguishing properties of our silicone.

The silicone performed exceptionally and was classified as V-0, best classification, meaning the tested material did not flame for more than 10 seconds after being burnt. In fact, in most cases flaming was much less than 10 seconds. A copy of test report 430491 is available upon request.

SOUND

For the same reason these seals perform well in cold smoke and air leakage situations, they also have good acoustic properties. They have been tested in the UKAS laboratory at Salford University and 188S achieved 31 Rw and 388S achieved 36 Rw when used in conjunction with our 564A threshold. Please see page 54 for full details. All sets independently tested to BS EN ISO 140-3:1995 sound insulation tests by UKAS accredited laboratory. The University of Salford Test Report No 132-1 refers.



All the features at a glance:

- Available in three sizes.
- To suit a range of frame gaps from 1.8mm to 4.5mm.
- A range of four colours (black, dark bronze, light grey, and white) with the exception of 388S being dark bronze only.
- Successfully **bi-directional** fire tested. Suitable for use on doors of both steel or timber construction.
- New UL94 testing, classified V-0.
- Cold smoke seals.
- Sound tested to achieve a rating of 31Rw (36 Rw for 388S) when used with our 564A threshold.

ZERO SILICONE TEARDROP FIRE & SMOKE SEALS

MATERIAL TESTS

Due to customer request, particularly those operating in the transport industry, these seals have undergone a series of Material Tests, also referred to as 'Burn Tests'. Samples of the seals were tested to establish the following

- Oxygen Index:** To determine the amount of oxygen required to support sustained ignition. Tested in accordance with BS EN ISO 4589-2:1999.
- Toxicity:** Measuring the fumes produced from a material in a fire situation. Tested in accordance with the procedure specified in NF X 70-100-1:2006 & NF X 70-100-2:2006.
- Smoke Density:** To gain an indication of visibility through any smoke emitted from the burning material. Tested in accordance with the principles of BS 6853:1999, incorporating amendment No 1, Annex D.8.3 (Withdrawn) / LUL S1085 Attachment B.5.

All tests were carried out by Exova Warringtonfire, and copies of detailed test reports are available upon request.

TEMPERATURE RANGE

These seals have a functional operating range between -40°C to +80°C. Rebound is excellent when both hot and cold.

RESISTANCE

Silicone seals have a good resistance to acid, oil, gasoline, animal/vegetable oils and water absorption. They also have excellent resistance to ultraviolet rays, sunlight ageing, oxidation, ozone, heat ageing, heat, cold and flame.

SURFACE PREPARATION

The surfaces should be clean, dry and free of dust, grease and oil before the installation process begins. If cleaning is necessary only use a clean cloth and a solvent that is compatible with the materials, such as isopropanol (isopropyl alcohol or IPA), ethanol or methanol (methylated or surgical spirits). Make sure to check for any impediments (dust, dirt, oil, grease, etc) or loose paint and remove them from the surface area.

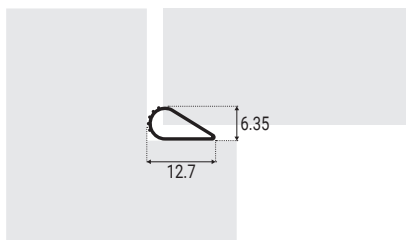
The surface must be completely dry before the installation process begins. We recommend that gasketing be installed after the doors and frames have been painted to the final finish and the paint has dried. Paints with plasticisers should be avoided as these can damage the adhesive layer. Paint should be dry and uniform (quick drying primers are not recommended). For application to timber frames, the painted or finished surface must be non-porous and smooth.

DO NOT STRETCH THE SEAL DURING INSTALLATION. The adhesive is designed to gradually set to a high peel strength so that immediate removal and resetting can be done if an error is made in the initial placement. Do not reset after one hour. Full set is reached in approximately 24 hours.

188S

Standard teardrop seal, with PSA self-adhesive backing.
Perimeter seal for frame head and sides.

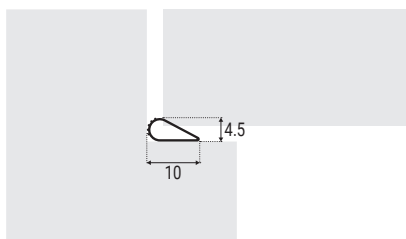
- Material:** Extruded silicone.
- Size:** 6.35mm thick x 12.7mm wide.
- Frame gap:** To suit 3mm - 3.5mm frame gaps.
- Coil length:** 91.4 metres (300 feet).
- Colours:** Black, dark bronze, white, light grey.
- Box Qty:** Packed 1 coil per box, outers of 5.



488S

Mini teardrop seal, with PSA self-adhesive backing.
Perimeter seal for frame head and sides.

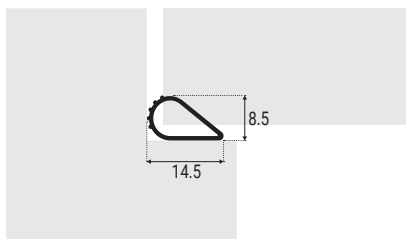
- Material:** Extruded silicone.
- Size:** 4.5mm thick x 10mm wide.
- Frame gap:** To suit 1.8mm - 2.5mm frame gaps.
- Coil length:** 91.4 metres (300 feet).
- Colours:** Black, dark bronze, white, light grey.
- Box Qty:** Packed 1 coil per box, outers of 5.



388S

Large teardrop seal, with PSA self-adhesive backing.
Perimeter seal for frame head and sides.

- Material:** Extruded silicone.
- Size:** 8.5mm thick x 14.5mm wide.
- Frame gap:** To suit 3.5mm - 4.5mm frame gaps.
- Coil length:** 61 metres (200 feet).
- Colours:** Dark bronze only.
- Box Qty:** Packed 1 coil per box, outers of 5.



REF	STYLE	WIDTH	HEIGHT	MAX GAP	COLOURS	COIL LENGTH	PRICE	UNIT	BOX QTY	OUTER QTY
188S	Standard	12.7mm	6.35mm	3.5mm	Black, bronze, white, grey	91 metres	£292.50	coil	1	5
488S	Mini	10mm	4.5mm	2.5mm	Black, bronze, white, grey	91 metres	£292.50	coil	1	5
388S	Large	14.5mm	8.5mm	4.5mm	Bronze only	61 metres	£242.19	coil	1	5

CUT LENGTHS - LIST PRICE PLUS 25% PRO-RATA. (CANNOT GUARANTEE CONTINUOUS LENGTH)

KISO EPDM SELF-ADHESIVE OEM SEALS

A wide range of extruded EPDM self-adhesive sealing systems. Various profiles and sizes are available to suit all non-fire rated applications. They are PSA backed so all are quick, easy and clean to apply to frame head and jambs. Please note that the surface preparation must be clean, warm, dry, grease free and dust free. The application temperature must be higher than 0°C.

EPDM = Ethylene Propylene Diene Monomer.

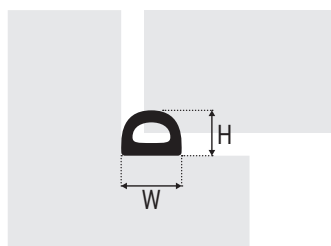
CUT LENGTHS - LIST PRICE PLUS 25% PRO-RATA. (CANNOT GUARANTEE CONTINUOUS LENGTH)



KISO D SEAL

Extruded EPDM cellular rubber weather sealing strip with "D" profile. With PSA pressure sensitive adhesive tape to back. NOT suitable for use on fire rated doors.

Material: Flexible EPDM.
 Sizes: 6, 7, 8, 10, 12, 17mm high. 8, 9, 12, 14, 18, 21mm wide. All stocked.
 Coil size: Varies depending on seal thickness.
 Colours: Black /BLK, brown /BRN, white /WHT. Stock colours in table.
 Temperature: Temperature resistance -50°C to +90°C.
 Applications: Metal doors, metal cupboards, timber windows and doors. For larger gaps.

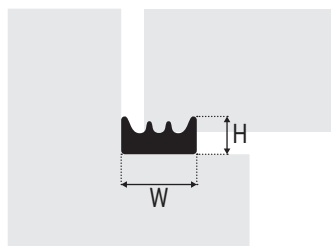


REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	FRAME GAP	PRICE	UNIT	BOX QTY
D-0608/BLK	6mm	8mm	160m	Black	3-5mm	£121.92	coil	3
D-0709/BLK	7mm	9mm	120m	Black	4-6mm	£107.50	coil	3
D-0808/BLK	8mm	8mm	120m	Black	5-7mm	£96.60	coil	3
D-1012/BLK	10mm	12mm	70m	Black	7-9mm	£123.07	coil	3
D-1018/BLK	10mm	18mm	80m	Black	7-9mm	£150.26	coil	2
D-1214/BLK	12mm	14mm	100m	Black	9-11mm	£194.72	coil	1
D-1721/BLK	17mm	21mm	50m	Black	13-16mm	£169.26	coil	1

KISO 141 SEAL

Extruded EPDM cellular rubber weather sealing strip. With PSA pressure sensitive adhesive tape to back. Ensures both water and air tightness between frame, glass and beads. As used in the Scandinavian window industry for over 30 years. NOT suitable for use in fire rated applications.

Material: Flexible EPDM.
 Sizes: 2, 3, 4, 5mm high. 8, 9, 10, 12, 15mm wide.
 Coil size: Varies depending on seal thickness.
 Colours: Black /BLK, brown /BRN, white /WHT. Stock colours in table.
 Temperature: Temperature resistance -50°C to +90°C.
 Applications: Metal and timber windows and doors.
 Note: Number of ridges may vary depending on size and colour.



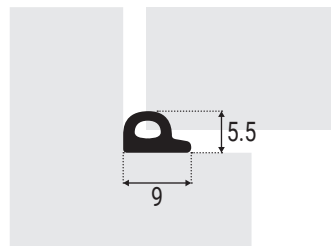
REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
141.0208/BLK	2mm	8mm	225m	Black	£60.57	coil	6
141.0309/BLK	3mm	9mm	150m	Black	£54.15	coil	6
141.0309/WHT	3mm	9mm	150m	White	£68.16	coil	6
141.0312/BLK*	3mm	12mm	150m	Black	£58.31	coil	6
141.0315/BLK	3mm	15mm	100m	Black	£57.48	coil	6
141.0409/BLK	4mm	9mm	125m	Black	£46.15	coil	6
141.0409/BRN	4mm	9mm	125m	Brown	£52.93	coil	6
141.0409/WHT	4mm	9mm	125m	White	£61.06	coil	6
141.0510/BLK	5mm	10mm	100m	Black	£46.29	coil	6

KISO EPDM SELF-ADHESIVE OEM SEALS

KISO P SEAL

Extruded EPDM cellular rubber weather sealing strip with "P" profile. With PSA pressure sensitive adhesive tape to back. NOT suitable for use on fire rated doors.

Material: Flexible EPDM.
 Sizes: 5.5mm high x 9mm wide only.
 Coil size: 100 metres and 160 metres.
 Colours: Black /BLK, brown /BRN, white /WHT. Stock colours in table.
 Temperature: Temperature resistance -50°C to +90°C.
 Applications: Metal and timber windows and doors. For medium gaps.

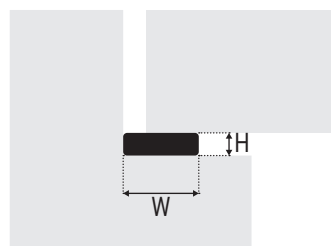


REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	FRAME GAP	PRICE	UNIT	BOX QTY
P-5509/BLK	5.5mm	9mm	160m	Black	3-5mm	£99.50	coil	3
P-5509/BRN	5.5mm	9mm	160m	Brown	3-5mm	£99.50	coil	3
P-5509/WHT	5.5mm	9mm	100m	White	3-5mm	£62.18	coil	6

KISO 05 SEAL

Extruded EPDM cellular rubber weather sealing strip with flat profile. With PSA pressure sensitive adhesive tape to back. NOT suitable for use on fire rated doors.

Material: Flexible EPDM.
 Sizes: 2, 3, 4, 5, 6, 8mm high. 8, 10mm wide. Stock sizes in table.
 Coil size: Varies depending on seal thickness.
 Colours: Black /BLK, white /WHT. Stock colours in table.
 Temperature: Temperature resistance -50°C to +70°C.
 Applications: Metal and timber windows and doors, metal cabinets, ventilation.

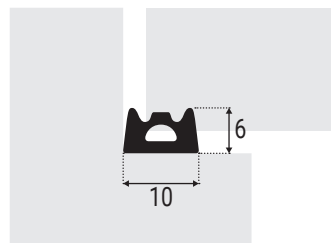


REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	FRAME GAP	PRICE	UNIT	BOX QTY
05-0310/BLK	3mm	10mm	150m	Black	1.5-2mm	£90.11	coil	6
05-0608/BLK	6mm	8mm	75m	Black	3-5mm	£59.42	coil	6

KISO H/PB HOLLOW PROFILE DRY GLAZING TAPE

Extruded EPDM cellular rubber glazing tape with hollow profile. With PSA pressure sensitive adhesive tape to back. Ensures both water and air tightness between frame, glass and beads. As used in the Scandinavian window industry for over 30 years. Can be turned at corners and used as continuous perimeter glazing. NOT suitable for use in fire rated applications.

Material: Flexible EPDM.
 Sizes: 6mm high x 10mm wide only.
 Coil size: 115 metres.
 Colours: Black /BLK only.
 Temperature: Temperature resistance -50°C to +90°C.
 Applications: Wooden windows and conservatories.

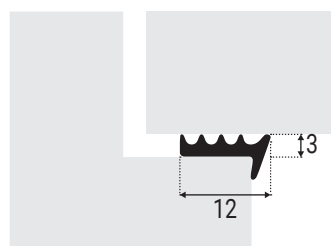


REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
H/PB/BLK	6mm	10mm	115m	Black	£74.16	coil	3

KISO L SEAL

Extruded EPDM cellular rubber weather sealing strip with "L" profile. With PSA pressure sensitive adhesive tape to back. NOT suitable for use on fire rated doors. Minimum compression 25%.

Material: Flexible EPDM.
 Sizes: 3mm high x 12mm wide only.
 Coil size: 100 metres.
 Colours: Black /BLK only.
 Temperature: Temperature resistance -50°C to +90°C.
 Applications: Wooden windows and conservatories.



REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
L-0312/BLK	3mm	12mm	100m	Black	£55.84	coil	6

ZERO INTUMESCENT TEARDROP FIRE & SMOKE SEALS

These Teardrop seals are extruded from an intumescent silicone material, which therefore expands at around 200°C (optimal expansion at around 750°C) in the event of fire. Both the popular 188 and 488 teardrop seals are available, to suit 3.5mm and 2.5mm frame gaps, respectively. They are supplied with double sided pressure sensitive adhesive tape and are fitted in the frame stop across the head and down both sides.

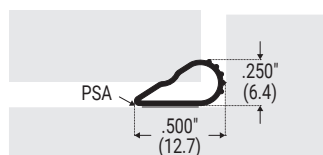
FIRE & SMOKE

The intumescent Teardrop range has been successfully tested on uninsulated steel inward opening doors for a duration up to 60 minutes, to BS EN 1634-1:2014. This testing further enhances the solutions we can offer for inward opening steel fire doors. Furthermore, they have also been successfully tested to BS EN 1634.3:2004 to enable them to be used as a cold smoke seal. This testing enables both seals to be fitted to doorsets to satisfy the smoke leakage requirements of Approved Document B of the Building Regulations. Reports available upon request.



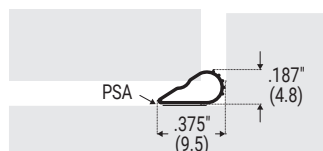
188FS

Standard intumescent teardrop seal, 12.7mm x 6.4mm.
Compress-O-Matic with PSA backing, black only.
To suit 3.5mm max frame gap.
100 metre coil.
£786.02 coil



488FS

Mini intumescent teardrop seal, 9.5mm x 4.8mm.
Compress-O-Matic with PSA backing, black only.
To suit 2.5mm max frame gap.
100 metre coil.
£786.02 coil

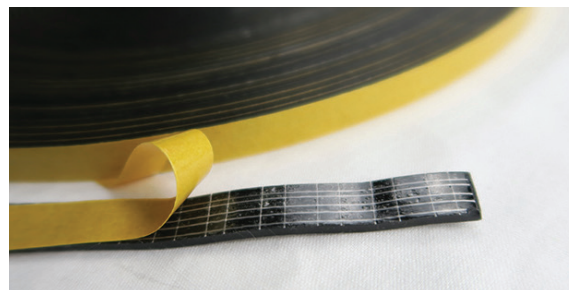


KISO 380 SECURITY GLAZING BUTYL

A high security glazing sealant that impedes break-ins and break-outs.

KISO 380 security glazing butyl is a rubber based, extruded butyl sealing strip with an integral adhesive scrim for glazing. Besides its air and water sealing qualities, KISO 380 is designed to prevent the type of forced entry where the beading system is removed from the outside. The butyl's high tack qualities will ensure that the glass stays in place - even when the glazing beads are removed. This makes KISO 380 well suited for buildings and premises with a higher risk of burglary, or break-out from secure establishments.

KISO 380 security glazing butyl must be used on both sides of the glass, and not in conjunction with vulcanised rubber sealing strips such as KISO 141. It has high tack qualities and provides good adhesion to metal, glass and wood. The product is approved by MTK, Sweden.



ADVANTAGES

- Helps to prevent break-ins - the glass cannot be removed without breakage
- Good adhesion to wood, glass and metal
- Glass fibre scrim carrier tape - for extra strength and adhesiveness
- An air and watertight seal
- Approved by MTK, Sweden
- For factory application and on site glazing
- Non-hardening, remains flexible throughout its service life
- Excellent UV resistance
- Good solvent resistance Simple, quick and clean application
- Long service life, estimated at 30 years



REF	THICKNESS	WIDTH	LENGTH	COLOUR	PRICE	UNIT	BOX QTY
380-0110*	1mm	10mm	40m	Black	£23.36	coil	26
380-0310	3mm	10mm	22m	Black	£27.41	coil	24
380-0410*	4mm	10mm	16m	Black	£20.34	coil	24

ELLEN RENOVATION SILICONE SEALS

A series of high grade silicone seals from Ellen for renovating PVCu windows and doors. There are six different seals to suit the most common PVCu systems, suitable for sealing gaps up to 8mm. These seals are durable with a high resistance to ageing, and have a large hollow chamber for good sound insulation. Choosing the appropriate seal depends on the installed PVCu system. As PVCu systems are subject to design changes we advise you to check the suitability before ordering. SEALS ONLY AVAILABLE BLACK.

Please note these seals are not self-adhesive.

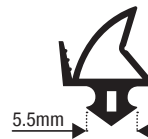
SP4189

For retrofitting the profile system of:
GEALAN® • KBE® • ROPLASTO® •
THERMOPLAST® • VEKA®
Article number: 918014925.1
£75.18 per 25 metre coil (Box Qty 2)



SP4314

For retrofitting the profile system of:
BRÜGMANN® • DECEUNINCK® • KBE® •
SCHÜCO® • THERMOPLAST® • VEKA®
Article number: 918034925.1
£75.18 per 25 metre coil (Box Qty 2)



SP4246

For retrofitting the profile system of:
ALUPLAST® • FINSTRAL® • KÖMMERLING® •
PLUS-TEC® • THYSSEN®
Article number: 918004925.1
£75.18 per 25 metre coil (Box Qty 2)



SP4289

For retrofitting the profile system of:
KÖMMERLING® • REHAU® • SCHÜCO®
Article number: 918024925.1
£75.18 per 25 metre coil (Box Qty 2)



SP4384

For retrofitting the profile system of:
DECEUNINCK® • KBE® • L.B.® •
SALAMANDER® • VEKA®
Article number: 918054925.1
£75.18 per 25 metre coil (Box Qty 2)



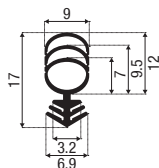
SP4385

For retrofitting the profile system of:
KÖMMERLING® • REHAU® • SCHÜCO®
Article number: 918064925.1
£75.18 per 25 metre coil (Box Qty 2)



ELLEN UNIVERSEAL PLUS REPLACEMENT SEAL

The universal solution from Ellen to replace perished or worn weatherstrips on PVCu windows and doors. It has a series of peelable layers and does the job of more than 100 standard profiles, making doors and windows airtight and waterproof again. There is no need to waste time searching for the exact profile, and the peelable layers provide a flexible working range. Please note these seals are not self-adhesive.



91807

Peelable PVCu seal.
Black, white, or brown TPE.
918071925 white
918072925 brown
918074925 black

£147.07 per 25 metre coil (Box Qty 1)

FITTING PROFILE	BULB PROFILE			

ONE SEAL - 12 PROFILE COMBINATIONS BY PEELING

REPLACES ALL THESE SEALS AND MORE											

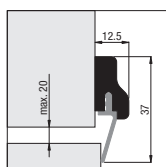
ELLEN WOODEN FRAME SEALS

These wooden frame seals for doors and windows are available in authentic beech. With the re-emergence of natural materials being used for doors and windows in place of PVCu, these products provide a complementary sealing system to match at the bottom of the door and up the sides of the frame. Please note these seals are not self-adhesive.

HDS

Natural beech door bottom strip.
Wooden carrier with a soft vinyl seal.
Pre-drilled for fixing screws (included).
To suit maximum gap of 20mm.
Can be easily cut to length on site.

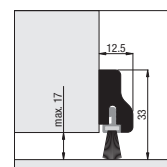
HDS/BCH-1000mm £24.13 each (Box Qty 10)



HDS-B

Natural beech door bottom strip
Wooden carrier and a soft anti-static brush.
Pre-drilled for fixing screws (included).
To suit maximum gap of 17mm.
Can be easily cut to length on site.

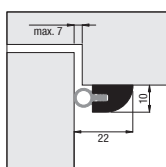
Also suits bottom of sliding doors and windows.
HDS-B/BCH-1000mm £25.50 each (Box Qty 10)



HTS

Natural beech perimeter draught seal.
Wooden carrier and a silicone bulb insert.
Not pre-drilled.
To suit maximum gap of 7mm.
Can be easily cut to length on site.
To suit inward and outward opening doors and windows.

HTS/BCH-2300mm £27.35 each (Box Qty 30)

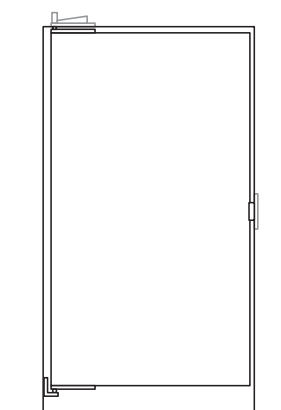
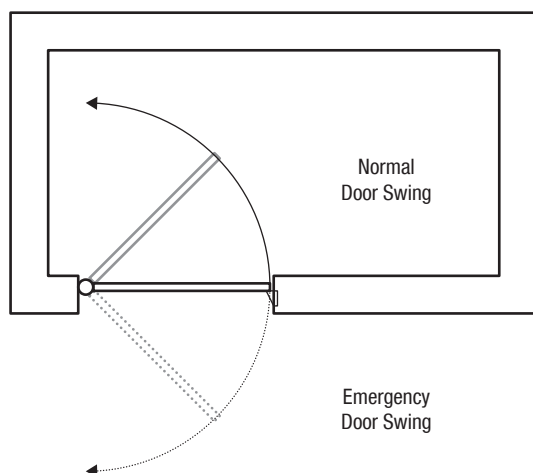


RESCUE HARDWARE

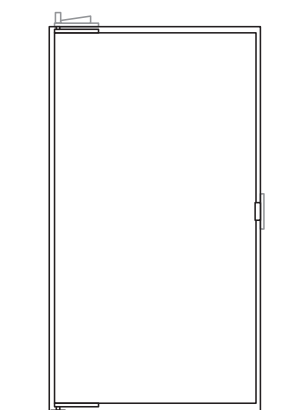
In certain applications, such as a wheelchair accessible toilet, doors may be required to swing both ways to enable rescue in the event of an emergency. For instance, if a person falls against the door and cannot move, then the door will be required to open and swing in the opposite direction to aid rescue.

Approved Document M: Access to and use of buildings, states "WC compartment doors, and doors to wheelchair-accessible unisex toilets, changing rooms or shower rooms should have an emergency release mechanism so that they are capable of being opened outwards, from the outside in case of emergency".

One method of achieving this is by using an emergency door stop in conjunction with a double action pivot set.



Z0127



Z0128

Z4590

Emergency door stop.

Can be pushed in during an emergency to allow the door to be opened in the opposite direction.

Automatically returns to door stop position once released.

To be used with pivots.

Rubber buffer for quieter use.

Optional hold back clip supplied as standard.

US32D satin stainless steel.

£114.06 (Box Qty 1)



Z4591

Emergency door stop.

Acts as a frame stop to allow door to double swing.

Held in model.

Satin stainless steel.

£100.67 (Box Qty 1)



Z0127

Pivot set - centre hung, frame mounting.

0320 Mortice fixing top pivot.

0127 Frame & mortice fixing bottom pivot.

Non-handed.

US32D satin stainless steel.

Max door weight 90kg.

Max door size 1067mm wide x 2591mm high.

£136.51 (Box Qty 1)



Z0128

Pivot set - centre hung, floor mounting.

0320 Mortice fixing top pivot.

0128 Floor & mortice fixing bottom pivot.

Non-handed.

US32D satin stainless steel.

Max door weight 110kg.

Max door size 1067mm wide x 2591mm high.

£136.51 (Box Qty 1)



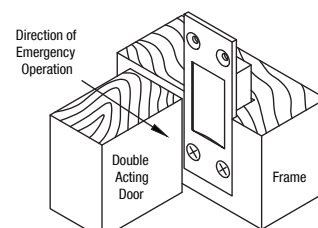
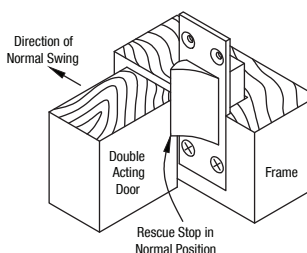
ZDLSP

Double action strike plate.

To suite traditional UK style locks fitted to double swing doors.

Satin stainless steel.

£44.14 (Box Qty 1)

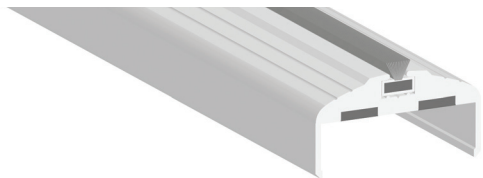


Rescue Stop may be
Depressed Manually to allow Door to
Open in Opposite Direction
OR
By using the Optional Hold Back Plate & Clip by
Sliding Down the Hold Back Clip (Shown below)

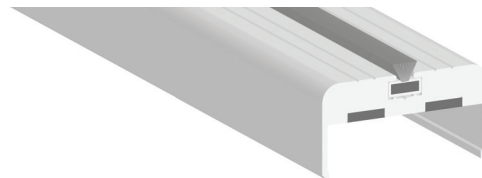
INTUMESCENT DOOR EDGINGS

The edging consists of an aluminium extrusion with intumescent and brush strip, which maintain fireproof tolerances on single or pairs of timber doors. They are easy to fit and are supplied complete with full fixings and instructions. Cut outs for locks and other hardware are possible. Standard stock lengths 2100mm, to suit 46mm thick doors. Also available to suit 42mm, 44mm, 55mm and 63mm door thicknesses. Other lengths available up to 2500mm. Standard finish SAA, other finishes include bronze, black, gold anodised or colour coating to any RAL colour. Supplied with 6mm grey brush as standard. 10mm black brush available, add £9.47 per 2100mm length.

- Refurbishes damaged timber door edges.
- Available 2100mm and 2500mm.
- Can be used to protect both leading edge and trailing edge of door.
- Maintenance free.



DEG/A/46 46mm round guard (double swing doors)
DEG/A/55* 55mm round guard (double swing doors)



DEG/B/46 46mm flat guard (single swing doors)
DEG/B/55* 55mm flat guard (single swing doors)

DESCRIPTION	6MM BRUSH	FIN SEAL	PRICE 2100MM	PRICE 2500MM	UNIT	PACK QTY
46mm flat guard for single swing doors, SAA finish.	DEG/B/46	DEG/B/46	£226.73	£269.98	length	1
55mm flat guard for single swing doors, SAA finish.	DEG/B/55*	DEG/B/55*	£246.34	£293.26	length	1
46mm round guard for double swing doors, SAA finish.	DEG/A/46	DEG/A/46	£226.73	£269.98*	length	1
55mm round guard for double swing doors, SAA finish.	DEG/A/55*	DEG/A/55*	£246.34	£293.26	length	1

SLEEVED INTUMESCENT STRIPS

In the event of fire the point on a timber fire door most likely to suffer failure is the gap between the door and its frame. Intumescent fire seals swell when exposed to hot gases and flames thus providing suitable protection. If doors are required to prevent the passage of smoke in the early stages of a fire, the intumescent seal must be supplied with a brush pile or neoprene blades, which act as a smoke seal.

These seals contain a graphite intumescent core, which features extremely rapid multi-directional expansion in the event of fire. The intumescent core is encased within a rigid PVC sleeve which has a self-adhesive backing. The sleeve acts as a casing and provides the necessary protection from day to day wear and tear. The product has a life expectancy in excess of one hundred years as indicated by laboratory ageing tests. There is no performance degradation due to moisture, humidity or atmospheric pollution. The product is mineral based and safe to handle containing no glass fibre or harmful chemicals.

FIRE RATING

These products are extensively fire tested to conform to British Standards, and are Certifire Approved. Timber doors only.

Fire - BS 476-22:1987 and BS 476-23 Section 6:1987.

Smoke - BS 476-31.1:1987 (seals fitted with brush pile or neoprene blade only).

Copies of fire tests available on request.

APPLICATIONS

These products are suitable for single leaf single swing doors, single leaf double swing doors, double leaf single swing doors and double leaf double swing doors. Timber doors only.

SIZES

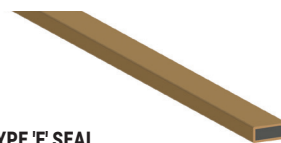
Seals are supplied either 10mm or 15mm wide for 30 minute fire rated doors, or 20mm wide for 60 minute fire rated doors. Standard thickness is 4mm. The standard length is 2100mm but 1050mm can be supplied to special order. Standard brush is 4mm high. Neoprene blades are 4mm high.

COLOURS

Standard sleeve colours are white and brown but red, cream, black and grey are available to special order. The brush pile is supplied grey as standard and the neoprene blades are supplied black.

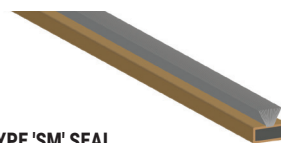
TYPES

For fire only (no smoke seal) applications, Type 'F' seals should be used. Where a smoke seal is also required, we now have two options. The traditional Type 'SM' brush pile seals, or new to the range are Type 'SF' or 'DF' low friction neoprene blade seals. These new neoprene blade seals are ideal for doors where ease of access is a requirement.



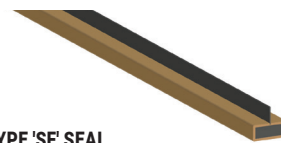
TYPE 'F' SEAL

Fire only (no brush pile or neoprene fin), with self-adhesive backing.



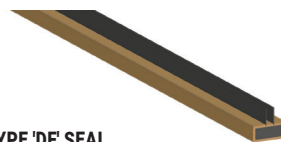
TYPE 'SM' SEAL

Fire and smoke, with brush pile, with self-adhesive backing.



TYPE 'SF' SEAL

Fire and smoke, with single neoprene fin, with self-adhesive backing.



TYPE 'DF' SEAL

Fire and smoke, with twin neoprene fin, with self-adhesive backing.

DESCRIPTION	WHITE REF	BROWN REF	PRICE	UNIT	PACK QTY
30-MINUTE SEALS - 10MM X 4MM X 2100MM					
Plain Fire Seal (no brush)	10/30F/W	10/30F/B	£3.07	length	50
Fire & Smoke Seal (with 4mm grey brush pile)	10/30SM/W	10/30SM/B	£3.42	length	50
Fire & Smoke Seal (with single 4mm black neoprene fin)	10/30SF/W	10/30SF/B	£4.43	length	50
Fire & Smoke Seal (with double 4mm black neoprene fin)	10/30DF/W	10/30DF/B	£4.50	length	50
30-MINUTE SEALS - 15MM X 4MM X 2100MM					
Plain Fire Seal (no brush)	15/30F/W	15/30F/B	£3.97	length	25
Fire & Smoke Seal (with 4mm grey brush pile)	15/30SM/W	15/30SM/B	£5.10	length	25
Fire & Smoke Seal (with single 4mm black neoprene fin)	15/30SF/W	15/30SF/B	£5.31	length	25
Fire & Smoke Seal (with double 4mm black neoprene fin)	15/30DF/W	15/30DF/B	£5.39	length	25
60-MINUTE SEALS - 20MM X 4MM X 2100MM					
Plain Fire Seal (no brush)	20/60F/W	20/60F/B	£6.33	length	25
Fire & Smoke Seal (with 4mm grey brush pile)	20/60SM/W	20/60SM/B	£7.43	length	25
Fire & Smoke Seal (with single 4mm black neoprene fin)	20/60SF/W	20/60SF/B	£5.61	length	25
Fire & Smoke Seal (with double 4mm black neoprene fin)	20/60DF/W	20/60DF/B	£5.68	length	25

ZERO INTUMESCENT LOCK PACKS

Intumescent lock pack for DIN standard lock cases (as shown on page 136). Comprises FS4004 intumescent gasket to fit both sides of lock case in timber doors. This expands 80 times its own volume in the event of fire and protects the door from burning through in this vulnerable area.

DESCRIPTION

2mm thick graphite material, with self-adhesive backing. Pre-cut to suit DIN standard lockcases with 60mm backset. Other sizes to order.

INSTALLATION

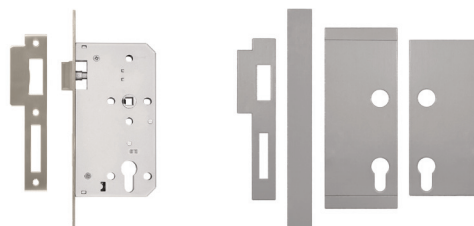
Increase width of mortice when cutting out for lock. Apply to sides of lock using self-adhesive backing and trim to size if necessary. Fit lock in normal fashion, fixing furniture through the intumescent pads.

TESTING

ZLP44 is included in WF Assessment Report No 190867 Issue 4 reviewed and revalidated in WF Assessment Report No 353051. Products may be fitted to previously tested insulated timber doorsets or uninsulated steel doorsets to provide up to 60 minutes integrity if tested in accordance with BS EN 1634-1:2000, in the proposed configuration i.e. single-leaf or double-leaf.

For 30 minute timber doors the lockcase does not need intumescent protection, but Zero intumescent should be fitted both behind the lock forend and behind the strike plate. For 60 minute timber doors the lockcase must be wrapped with Zero intumescent lock pack. Additionally Zero intumescent should be fitted both behind the forend and behind the strike plate. ZLP44 intumescent lock packs are not required on steel doorsets. ZLP44 is supplied as a complete pack of four pieces, but individual components are available separately.

REF	SIZE	PRICE	UNIT
ZLP44	4 part complete intumescent lock pack	£20.55	pack
ZLP44-650*	76mm x 165mm individual piece for lockcase side	£5.91	each
ZLP44-675*	25mm x 171mm individual lipped piece for strike plate	£5.20	each
ZLP44-750*	76mm x 190mm individual piece for lockcase side, scored	£6.22	each
ZLP44-812*	25mm x 235mm individual piece for forend	£3.25	each



ZERO INTUMESCENT HINGE PADS

ZHP44 intumescent hinge pads are fitted behind the hinge on timber doors as this is an area most likely to suffer integrity failure in a fire. In the event of fire, they rapidly expand to provide additional protection and insulate the heat transfer from hinge to door and frame.

DESCRIPTION

Cut from 2mm thick FS4004 graphite material, with self-adhesive backing on one side. The activation temperature is 288°C and they expand 80 times their own volume with an expansion pressure of 0.09 N/mm². ZHP44 intumescent hinge pads are supplied in packs of six pre-cut pieces with full installation instructions.

INSTALLATION

The depth of rebate should be increased when cutting out for the hinge. Apply the pad to the back of hinge using self-adhesive backing and trim to size if necessary. Fit the hinge in the normal fashion, screwing through the intumescent pads, ensuring hinges are flush with door/frame.

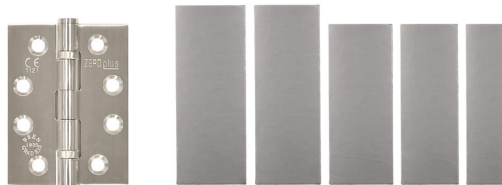
TESTING

Intumescent hinge pads cannot be tested as a stand-alone product. Each situation is different. Performance is dependent upon the door specification and hinge specification and the interaction between each of these components. However FS4004 type intumescent is a well proven material which has been included in many successful fire tests in various applications over years. This offers confidence to manufacturers wishing to adopt a reliable hinge pad material where situations demand.

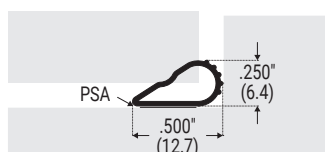
SIZES

Hinge pads are available in five sizes to suit all regular size hinges; 102x76mm, 102x89mm, 102x102mm, 114x102mm and 114x114mm. They are available with square corners as standard, but can also be supplied with two 10mm radius corners to suit radius corner hinges, at a surcharge of 10%. Suffix ref -R instead of -S.

REF	SIZE - SQUARE CORNER PATTERNS	PRICE	UNIT	QTY
ZHP44.1-S	101mm x 30mm hinge pad to suit 102x76mm (4"x3") hinge	£8.62	pack	6
ZHP44.2-S	101mm x 37mm hinge pad to suit 102x89mm (4"x3½") hinge	£11.26	pack	6
ZHP44.3-S	101mm x 42mm hinge pad to suit 102x102mm (4"x4") hinge	£12.21	pack	6
ZHP44.4-S	114mm x 42mm hinge pad to suit 114x102mm (4½"x4") hinge	£13.73	pack	6
ZHP44.5-S	114mm x 47mm hinge pad to suit 114x114mm (4½"x4½") hinge	£16.91	pack	6

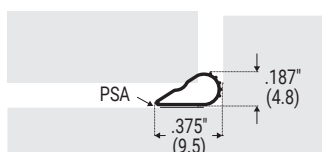


ZERO SELF-ADHESIVE INTUMESCENT SEALS



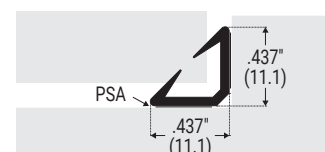
Standard intumescent teardrop seal, black.
12.7mm x 6.4mm.
Compress-O-Matic with PSA backing.
100 metre coil.

188FS £786.02 coil



Mini intumescent teardrop seal, black.
9.5mm x 4.8mm.
Compress-O-Matic with PSA backing.
100 metre coil.

488FS £786.02 coil



Wing type intumescent seal, black.
11mm x 11mm.
With PSA backing.
2438mm long.

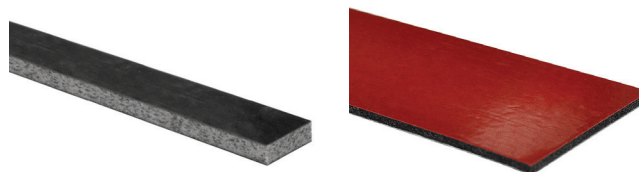
8144FS £46.22 each

PLEASE SEE PAGE 68 FOR 188FS AND 488FS FIRE AND SMOKE TEST INFORMATION.

ZERO INTUMESCENT FOR OEM USE

ZERO's approach to intumescent products and solutions is different from other manufacturers. Where other companies market one product for all purposes, we concluded from our own R&D that one size really does not fit all needs - not if you want best performance in every case. Recognising that optimum performance is application specific, we engineered separate products using different formulations and materials to meet specific needs and conditions. We manufacture all these products at our manufacturing facility in Indianapolis, USA. One of our two specialised intumescent materials will most likely give you exactly the performance you need. The primary characteristics that distinguish different formulations are:

- Activation temperature
- Expansion - volume and force
- Capacity for continued expansion (stable char)



FS3003

FS4004

MATERIAL DEFINITIONS AND PHYSICAL PROPERTIES

	FS3003	FS4004
Activation temperature	350°F (176°C)	550°F (288°C)
Expansion volume	16-18 X	80 X
Expansion pressure	27 PSI (.0187 N/mm ²)	131 PSI (.09 N/mm ²)
Multi or controlled directional	✓	✓
Stability after expansion	Very Good	Poor
Char	Soft & Fluffy	Soft & Fluffy
Flame-resistant	✓	✓
Moisture-resistant	✓	✓
Chemically inert/paintable	✓	✓
Non-carcinogenic	✓	✓
Long-life (no deterioration)	✓	✓
Odour-free	✓	✓
Colour-standard	Black	Red

FS3003 SOFT PUFF™

The FS3003 has been developed specifically for doors. This rubber matrix material begins intumescenting at relatively low temperatures. It expands gradually to fill all gaps with moderate force that will not unlatch the door, and has sufficient reservoir capacity to continue intumescenting if escape doors are closed again. FS3003 also stands up well to the stringent requirements for protecting fire doors on oil rigs, which are subject to especially intense heat and flames.

FS4004

The FS4004 is a graphite-based material formulated to expand to approximately 80 times its original volume. This expansion rate works very well for filling lock-side top corner gaps typical of metal doors exposed to extreme heat. FS4004 is used extensively in our FBLS Fire Block Louvre System, and to line door aperture cut-outs. WF Report No 190621/A Issue 7 refers.

All intumescent products are non-carcinogenic and asbestos-free. Unlike other products available in the marketplace that require special sheathing because of short shelf life, FS3003 is a very stable material. Intumescent products are rubber-like in texture and are easy to cut and glue, whereas other products tend to be brittle and more difficult to handle. And we offer our product in a variety of convenient standard sizes.

		FS3003 REF	FS4004 REF	PRICE	UNIT
1.6MM THICK	1.6mm x 9.5mm x 2438mm	3062375PSA*	4062375PSA*	£16.15	length
	1.6mm x 12.7mm x 2438mm	3062500PSA*	4062500PSA*	£17.00	length
	1.6mm x 19.1mm x 2438mm	3062750PSA*	4062750PSA*	£22.08	length
	1.6mm x 25.4mm x 2438mm	30621000PSA*	40621000PSA*	£29.77	length
	1.6mm x 44.0mm x 2438mm	30621750PSA*	40621750PSA	£44.28	length
	1.6mm x 50.8mm x 2438mm	30622000PSA*	40622000PSA*	£47.44	length
	1.6mm x 54.0mm x 2438mm	30622125PSA*	40622125PSA	£50.28	length
3.2MM THICK	3.2mm x 9.5mm x 2438mm	3125375PSA*	4125375PSA*	£22.14	length
	3.2mm x 12.7mm x 2438mm	3125500PSA*	4125500PSA*	£29.82	length
	3.2mm x 19.1mm x 2438mm	3125750PSA*	4125750PSA*	£39.11	length
	3.2mm x 25.4mm x 2438mm	31251000PSA*	41251000PSA*	£47.44	length
	3.2mm x 38.1mm x 2438mm	31251500PSA	41251500PSA*	£63.51	length
	3.2mm x 50.8mm x 2438mm	31252000PSA*	41252000PSA*	£71.05	length
6.4MM THICK	6.4mm x 9.5mm x 2438mm	3250375PSA*	4250375PSA*	£39.11	length
	6.4mm x 12.7mm x 2438mm	3250500PSA	4250500PSA*	£47.44	length
	6.4mm x 19.1mm x 2438mm	3250750PSA*	4250750PSA*	£62.87	length
	6.4mm x 25.4mm x 2438mm	32501000PSA*	42501000PSA*	£78.18	length
	6.4mm x 50.8mm x 2438mm	32502000PSA*	42502000PSA*	£117.10	length

Minimum order quantities may apply. Standard products in bold above, other sizes to order. Standard length 2438mm. Available without PSA tape.

FS1001 and FS2002 were discontinued in 2017 but some stock may still be available. Please call.

ANEMOSTAT METAL VISION FRAMES

LOPRO LOW PROFILE METAL VISION PANEL - PROFILES AA1 TO SUIT 44-46MM THICK DOORS & 6MM THICK GLASS

The LoPro is easy to install and provides a low profile, 'flush to the door look'. Uses 44mm sheet metal screws that pass through the door cut-out, and fasten to the opposite side of the vision frame, thus eliminating the need to drill the door for through bolts and saving installation time and labour. It also leaves the corridor side of the frame free of fasteners for added security and a cleaner, more aesthetic appearance.

Material: 20GA cold rolled steel, and Grades 304 and 316 stainless steel.

Finish: Galvanised grey primed as standard, other finishes available to special order.

Door thickness: For 44-46mm metal or timber doors. LoPro-IS suits other door thicknesses (see pages 76-79).

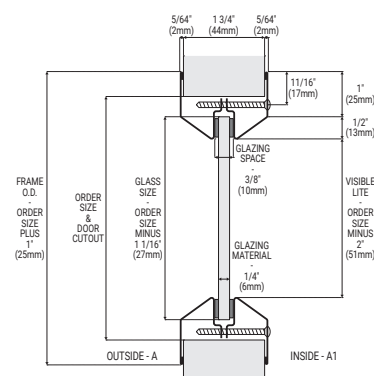
Glass thickness: 6mm as standard. Glass pocket of 10mm allows for glazing tape or compound to be used on one or both sides of the glass.

Aesthetics: Tight mitred corners, bevelled glass stop, and low profile provide a clean tapered look, concealed fixing one side only.

Fixings: Supplied with #8 x 44mm raised csk zinc plated sheet metal screws with Phillips head as standard. Special security fasteners available, prices on page 114. HM Hollow Metal Clips also shown on page 114.

Fire ratings: LoPro glazed vision panel systems are assessed for use on previously tested timber based doorsets up to 60 minutes and insulated and uninsulated steel doorsets up to 240 minutes with respect to BS EN 1634-1:2000 and BS 476-22:1987. WF Assessment Report No 190621/A Issue 7. Copy available upon request. LoPro frames must be used in the same configuration as tested with an aperture of the same size as that proposed being used (vision or louvre acceptable). Doors must have been previously tested to the relevant standard. The maximum sizes permitted and the period of integrity will be determined by the glass used, as detailed in the report. Mild steel and stainless steel frames are included. Zero FS9009 "ceramic type" glazing tape and FS4004 intumescent aperture liners should be used on timber doors. FS9009 "ceramic type" glazing tape should be used on steel doors, prices on page 98. Glazed apertures should be positioned a minimum of 150mm from any edge of the door leaf.

Corrosion: LoPro vision frames (both galvanised mild steel and grade 304 stainless steel) have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

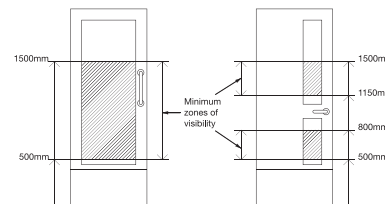


PROFILES AA1

A = Blind side A1 = Screw hole side

MINIMUM ZONES OF VISIBILITY IN DOORS

We are often asked what size vision frames should be fitted to accessible entrance doors, and we refer customers to Approved Document M of the Building Regulations regarding access to and use of buildings other than dwellings. Doors to accessible entrances should be accessible to all, particularly wheelchair users and people with limited physical dexterity. Such doors will satisfy Requirement M1 or M2 if unless it can be argued otherwise in the Access Statement, e.g. for reasons of security, door leaves, and side panels wider than 450mm, have vision panels towards the leading edge of the door whose vertical dimensions include at least the minimum zone, or zones, of visibility between 500mm and 1500mm from the floor, if necessary interrupted between 800mm and 1150mm above the floor, e.g. to accommodate an intermediate horizontal rail. The tall narrow visions and combination narrow vision sets illustrated below will meet these requirements.



Specify Anemostat LoPro AA1 stock sizes - save time and money

SMALL NARROW VISIONS

LoPro 0630 152x762mm
LoPro 0722 178x559mm
LoPro 0820 203x508mm
LoPro 1014 254x356mm

SMALL SQUARE VISIONS

LoPro 0606 152x152mm
LoPro 0808 203x203mm
LoPro 1010 254x254mm
LoPro 1212 305x305mm

SMALL ROUND VISION

Lo-FP-12 305mm diameter

HALF GLASS VISIONS

LoPro 2030 508x762mm
LoPro 2432 610x813mm
LoPro 2436 610x914mm

MEDIUM NARROW VISIONS

LoPro 0830 203x762mm
LoPro 0848 203x1219mm
LoPro 1030 254x762mm
LoPro 1048 254x1219mm

MEDIUM SQUARE VISIONS

LoPro 1616 406x406mm
LoPro 1818 457x457mm
LoPro 2020 508x508mm
LoPro 2222 559x559mm

MEDIUM ROUND VISION

Lo-FP-18 457mm diameter

FULL GLASS VISION

LoPro 2460 610x1524mm

TALL NARROW VISIONS

LoPro 0860 203x1524mm
LoPro 1060 254x1524mm
LoPro 1260 305x1524mm

LARGE SQUARE VISIONS

LoPro 2424 610x610mm
LoPro 3232 813x813mm

COMBINATION VISIONS

LoPro 0820 & 0830
203x508 & 203x762mm
LoPro 1022 & 1030
254x559 & 254x762mm

All above dimensions are cut-out and order sizes. The sizes shown are an indication of sizes available; please refer to chart on page 75 for full range of sizes. Any size can be manufactured to order including fractional inch sizes.

ANEMOSTAT METAL VISION FRAMES

LOPRO METAL VISION PANEL - PROFILES AA1 TO SUIT 44-46MM THICK DOORS & 6MM THICK GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
LOPRO 0606	6 x 6	152 x 152	101 x 101	125 x 125	£77.71
LOPRO 0608	6 x 8	152 x 203	101 x 152	125 x 176	£71.23
LOPRO 0614*	6 x 14	152 x 356	101 x 305	125 x 329	£122.10
LOPRO 0618	6 x 18	152 x 457	101 x 406	125 x 430	£130.68
LOPRO 0622*	6 x 22	152 x 559	101 x 508	125 x 532	£150.59
LOPRO 0626	6 x 26	152 x 660	101 x 609	125 x 633	£127.06
LOPRO 0630	6 x 30	152 x 762	101 x 711	125 x 735	£117.64
LOPRO 0642	6 x 42	152 x 1067	101 x 1016	125 x 1040	£214.82
LOPRO 0648	6 x 48	152 x 1219	101 x 1168	125 x 1192	£256.91
LOPRO 0660	6 x 60	152 x 1524	101 x 1473	125 x 1497	£314.50
LOPRO 0722	7 x 22	178 x 559	127 x 508	151 x 532	£90.62
LOPRO 0730	7 x 30	178 x 762	127 x 711	151 x 735	£113.49
LOPRO 0736	7 x 36	178 x 914	127 x 863	151 x 887	£131.86
LOPRO 0808	8 x 8	203 x 203	152 x 152	176 x 176	£65.95
LOPRO 0814	8 x 14	203 x 356	152 x 305	176 x 329	£113.08
LOPRO 0820	8 x 20	203 x 508	152 x 457	176 x 481	£116.77
LOPRO 0830	8 x 30	203 x 762	152 x 711	176 x 735	£105.09
LOPRO 0832	8 x 32	203 x 813	152 x 762	176 x 786	£113.49
LOPRO 0842	8 x 42	203 x 1067	152 x 1016	176 x 1040	£189.39
LOPRO 0848	8 x 48	203 x 1219	152 x 1168	176 x 1192	£219.47
LOPRO 0860	8 x 60	203 x 1524	152 x 1473	176 x 1497	£271.81
LOPRO 1010	10 x 10	254 x 254	203 x 203	227 x 227	£63.87
LOPRO 1014	10 x 14	254 x 356	203 x 305	227 x 329	£89.57
LOPRO 1018	10 x 18	254 x 457	203 x 406	227 x 430	£139.53
LOPRO 1022	10 x 22	254 x 559	203 x 508	227 x 532	£100.92
LOPRO 1024*	10 x 24	254 x 610	203 x 559	227 x 583	£172.98
LOPRO 1030	10 x 30	254 x 762	203 x 711	227 x 735	£111.26
LOPRO 1032	10 x 32	254 x 813	203 x 762	227 x 786	£120.15
LOPRO 1036	10 x 36	254 x 914	203 x 863	227 x 887	£146.23
LOPRO 1040	10 x 40	254 x 1016	203 x 965	227 x 989	£163.01
LOPRO 1042	10 x 42	254 x 1067	203 x 1016	227 x 1040	£166.97
LOPRO 1048	10 x 48	254 x 1219	203 x 1168	227 x 1192	£179.23
LOPRO 1060	10 x 60	254 x 1524	203 x 1473	227 x 1497	£220.43
LOPRO 1062	10 x 62	254 x 1575	203 x 1524	227 x 1548	£242.49
LOPRO 1068	10 x 68	254 x 1727	203 x 1676	227 x 1700	£271.41
LOPRO 1212	12 x 12	305 x 305	254 x 254	278 x 278	£63.87
LOPRO 1218	12 x 18	305 x 457	254 x 406	278 x 430	£150.60
LOPRO 1230	12 x 30	305 x 762	254 x 711	278 x 735	£124.59
LOPRO 1236	12 x 36	305 x 914	254 x 863	278 x 887	£135.70
LOPRO 1260	12 x 60	305 x 1524	254 x 1473	278 x 1497	£313.76
LOPRO 1262	12 x 62	305 x 1575	254 x 1524	278 x 1548	£251.37
LOPRO 1616	16 x 16	406 x 406	355 x 355	379 x 379	£105.09
LOPRO 1620	16 x 20	406 x 508	355 x 457	379 x 481	£114.01
LOPRO 1624	16 x 24	406 x 610	355 x 559	379 x 583	£141.45
LOPRO 1636	16 x 36	406 x 914	355 x 863	379 x 887	£203.75
LOPRO 1818	18 x 18	457 x 457	406 x 406	430 x 430	£105.09
LOPRO 1822	18 x 22	457 x 559	406 x 508	430 x 532	£129.47
LOPRO 1824	18 x 24	457 x 610	406 x 559	430 x 583	£168.33
LOPRO 1830	18 x 30	457 x 762	406 x 711	430 x 735	£183.83
LOPRO 1836	18 x 36	457 x 914	406 x 863	430 x 887	£155.84
LOPRO 2020	20 x 20	508 x 508	457 x 457	481 x 481	£113.29
LOPRO 2030	20 x 30	508 x 762	457 x 711	481 x 735	£129.78
LOPRO 2060	20 x 60	508 x 1524	457 x 1473	481 x 1497	£380.93
LOPRO 2222	22 x 22	559 x 559	508 x 508	532 x 532	£115.36
LOPRO 2424	24 x 24	610 x 610	559 x 559	583 x 583	£115.36
LOPRO 2432	24 x 32	610 x 813	559 x 762	583 x 786	£129.78
LOPRO 2436	24 x 36	610 x 914	559 x 863	583 x 887	£144.28
LOPRO 2448*	24 x 48	610 x 1219	559 x 1168	583 x 1192	£360.20
LOPRO 2460	24 x 60	610 x 1524	559 x 1473	583 x 1497	£356.82
LOPRO 3232	32 x 32	813 x 813	762 x 762	786 x 786	£232.74

For prices of glass, glazing tape and intumescent aperture liners please see pages 94-99. Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

ANEMOSTAT-IS METAL VISION FRAMES

LOPRO-IS LOW PROFILE METAL VISION PANEL - TO SUIT VARIOUS DOOR AND GLASS THICKNESSES

The LoPro-IS is very similar to the LoPro on pages 74-75 but it uses five different profiles to accommodate a range of door and glass thickness combinations. It is easy to install and provides a low profile, "flush to the door look". Sheet metal screws pass through the door cut-out, and fasten to the opposite side of the vision frame, thus eliminating the need to drill the door for through bolts and saving installation time and labour. It also leaves the corridor side of the frame free of fasteners for added security and a cleaner, more aesthetic appearance.

Material: 20GA cold rolled steel and Grades 304 and 316 stainless steel.

Finish: Galvanised grey primed as standard, other finishes available to special order.

Aesthetics: Tight mitred corners, bevelled glass stop and low profile, provide a clean tapered look.

Fixings: Special security fasteners available, see page 114.

Fire ratings: For single glazed LoPro-IS fire rated applications, the fire rating details listed on page 74 for the standard LoPro apply. In summary; steel doors up to 240 minutes integrity and timber doors up to 60 minutes integrity. A suitable fire rated glass (page 95) is to be used - size limitations apply.

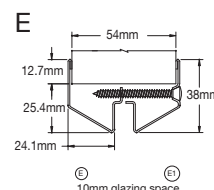
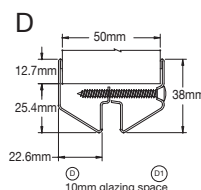
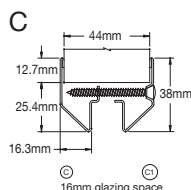
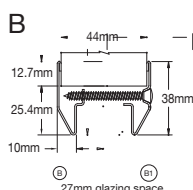
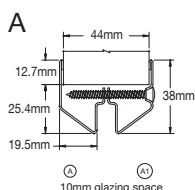
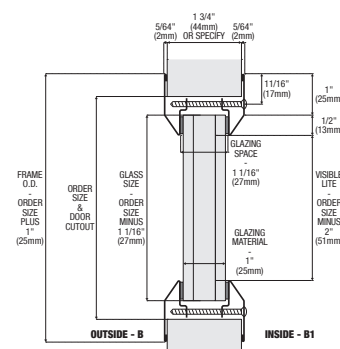
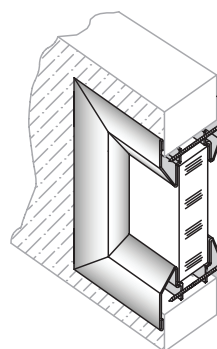
We have dedicated test evidence for the LoPro-IS when used with a double glazed unit (DGU) within fire doors. The tested DGU incorporated Firelite glass so therefore they can be used in steel doors for up to 240 minutes integrity, and timber doors for up to 60 minutes integrity. Furthermore, now that the LoPro-IS has been proven with a DGU, other glass types can be used providing they have sufficient test evidence when incorporated into a DGU. Assessment report 190621/A Issue 7 should be consulted for full details.

For both single and double glazed fire rated applications, FS9009 "ceramic type" glazing tape (page 98) should be used for steel and timber doors. For timber fire rated doors, FS4004 aperture liner (page 99) should also be used.

Corrosion: LoPro vision frames (both galvanised mild steel and grade 304 stainless steel) have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Door Thickness: Door thickness of 44mm, 50mm and 54mm are standard. The door thickness can vary based on the thickness of glass used, up to a maximum of 70mm, provided longer fixing screws are used. If larger glazing pockets are required, then the FGS-IS can be used as this will suit doors and panels up to 100mm thick.

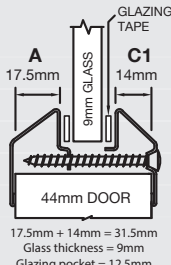
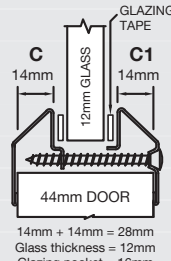
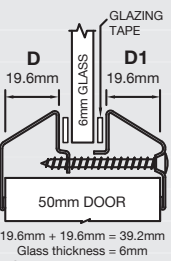
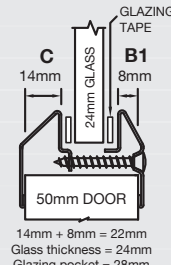
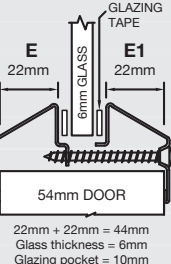
Profiles: There are five different profiles in the LoPro-IS range; profiles A, B, C, D and E. They can be used in combination to suit various door, glass and double glazed unit thicknesses. The simplest way to think about it is that if you add 10mm to the glazing pocket, you also add 10mm to the door thickness. It is also possible to specify which side of the frame should have concealed fixings and which should have screw fixings. (1 = screw side). On pages 80-81 we show the most popular door and glass thickness combinations that can be achieved using profiles A, B, C, D and E. Please note that with some combinations the glass may be offset within the door thickness.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE £ SET	FRAME PROFILES A, B, C, D, E
STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 25MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 0630-44/25 BB1	6 x 30	152 x 762	101 x 711	125 x 735	£230.00	
LOPRO-IS 0808-44/25 BB1	8 x 8	203 x 203	152 x 152	176 x 176	£106.79	
LOPRO-IS 0820-44/25 BB1	8 x 20	203 x 508	152 x 457	176 x 481	£170.22	
LOPRO-IS 0830-44/25 BB1	8 x 30	203 x 762	152 x 711	176 x 735	£186.75	
LOPRO-IS 0842-44/25 BB1	8 x 42	203 x 1067	152 x 1016	176 x 1040	£322.61	
LOPRO-IS 1010-44/25 BB1*	10 x 10	254 x 254	203 x 203	227 x 227	£158.73	
LOPRO-IS 1014-44/25 BB1*	10 x 14	254 x 356	203 x 305	227 x 329	£210.62	
LOPRO-IS 1022-44/25 BB1	10 x 22	254 x 559	203 x 508	227 x 532	£196.02	
LOPRO-IS 1030-44/25 BB1	10 x 30	254 x 762	203 x 711	227 x 735	£236.29	
LOPRO-IS 1048-44/25 BB1	10 x 48	254 x 1219	203 x 1168	227 x 1192	£341.63	
LOPRO-IS 1060-44/25 BB1	10 x 60	254 x 1524	203 x 1473	227 x 1497	£357.09	
LOPRO-IS 1131-44/25 BB1	11 x 31	279 x 787	228 x 736	252 x 760	£231.57	
LOPRO-IS 1212-44/25 BB1	12 x 12	305 x 305	254 x 254	278 x 278	£103.47	
LOPRO-IS 1224-44/25 BB1*	12 x 24	305 x 610	254 x 559	278 x 583	£262.52	
LOPRO-IS 1624-44/25 BB1	16 x 24	406 x 610	355 x 559	379 x 583	£201.38	
LOPRO-IS 1717-44/25 BB1	17 x 17	431 x 431	380 x 380	404 x 404	£215.27	
LOPRO-IS 1818-44/25 BB1	18 x 18	457 x 457	406 x 406	430 x 430	£170.22	
LOPRO-IS 2020-44/25 BB1	20 x 20	508 x 508	457 x 457	481 x 481	£215.77	
LOPRO-IS 2030-44/25 BB1	20 x 30	508 x 762	457 x 711	481 x 735	£251.73	
LOPRO-IS 2060-44/25 BB1	20 x 60	508 x 1524	457 x 1473	481 x 1497	£549.42	
LOPRO-IS 2424-44/25 BB1	24 x 24	610 x 610	559 x 559	583 x 583	£243.17	
LOPRO-IS 2432-44/25 BB1	24 x 32	610 x 813	559 x 762	583 x 786	£244.54	
LOPRO-IS 2436-44/25 BB1	24 x 36	610 x 914	559 x 863	583 x 887	£266.81	

Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door. Also available in stainless steel.

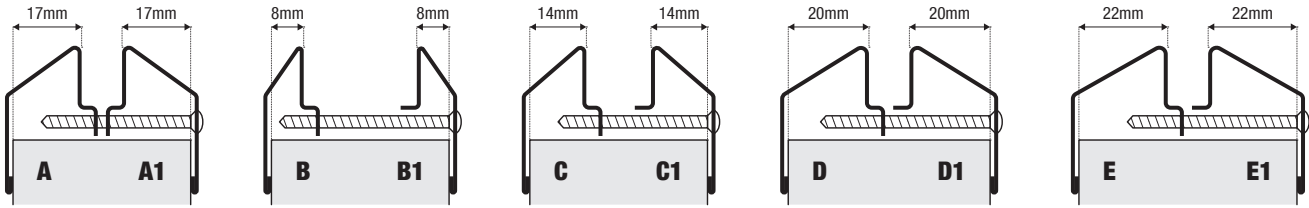
ANEMOSTAT-IS METAL VISION FRAMES

REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE £ SET	FRAME PROFILES A, B, C, D, E
STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 9MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 1010-44/9 AC1*	10 x 10	254 x 254	203 x 203	227 x 227	£158.73	
LOPRO-IS 1022-44/9 AC1*	10 x 22	254 x 559	203 x 508	227 x 532	£253.36	
LOPRO-IS 1030-44/9 AC1*	10 x 30	254 x 762	203 x 711	227 x 735	£274.73	
LOPRO-IS 1060-44/9 AC1*	10 x 60	254 x 1524	203 x 1473	227 x 1497	£540.29	
LOPRO-IS 1212-44/9 AC1*	12 x 12	305 x 305	254 x 254	278 x 278	£158.73	
LOPRO-IS 1218-44/9 AC1*	12 x 18	305 x 457	254 x 406	278 x 430	£244.20	
LOPRO-IS 1230-44/9 AC1*	12 x 30	305 x 762	254 x 711	278 x 735	£280.83	
LOPRO-IS 1818-44/9 AC1*	18 x 18	457 x 457	406 x 406	430 x 430	£262.52	
LOPRO-IS 2030-44/9 AC1*	20 x 30	508 x 762	457 x 711	481 x 735	£326.62	
STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 12MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 0630-44/12 CC1*	6 x 30	152 x 762	101 x 711	125 x 735	£259.46	
LOPRO-IS 0820-44/12 CC1*	8 x 20	203 x 508	152 x 457	176 x 481	£225.89	
LOPRO-IS 0830-44/12 CC1	8 x 30	203 x 762	152 x 711	176 x 735	£186.75	
LOPRO-IS 0832-44/12 CC1	8 x 32	203 x 813	152 x 762	176 x 786	£186.75	
LOPRO-IS 1022-44/12 CC1	10 x 22	254 x 559	203 x 508	227 x 532	£196.02	
LOPRO-IS 1030-44/12 CC1	10 x 30	254 x 762	203 x 711	227 x 735	£236.29	
LOPRO-IS 1060-44/12 CC1	10 x 60	254 x 1524	203 x 1473	227 x 1497	£357.09	
LOPRO-IS 1212-44/12 CC1*	12 x 12	305 x 305	254 x 254	278 x 278	£158.73	
LOPRO-IS 1818-44/12 CC1	18 x 18	457 x 457	406 x 406	430 x 430	£170.22	
LOPRO-IS 2030-44/12 CC1	20 x 30	508 x 762	457 x 711	481 x 735	£251.73	
LOPRO-IS 2424-44/12 CC1	24 x 24	610 x 610	559 x 559	583 x 583	£243.17	
LOPRO-IS 2430-44/12 CC1*	24 x 30	610 x 762	559 x 711	583 x 735	£302.20	
STANDARD SQUARES AND RECTANGLES TO SUIT 50-52MM DOORS AND 6MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 0808-50/6 DD1	8 x 8	203 x 203	152 x 152	176 x 176	£106.79	
LOPRO-IS 0820-50/6 DD1*	8 x 20	203 x 508	152 x 457	176 x 481	£225.89	
LOPRO-IS 0830-50/6 DD1	8 x 30	203 x 762	152 x 711	176 x 735	£186.75	
LOPRO-IS 0848-50/6 DD1	8 x 48	203 x 1219	152 x 1168	176 x 1192	£350.69	
LOPRO-IS 0860-50/6 DD1*	8 x 60	203 x 1524	152 x 1473	176 x 1497	£528.08	
LOPRO-IS 1030-50/6 DD1	10 x 30	254 x 762	203 x 711	227 x 735	£236.29	
LOPRO-IS 1060-50/6 DD1	10 x 60	254 x 1524	203 x 1473	227 x 1497	£357.09	
LOPRO-IS 1616-50/6 DD1*	16 x 16	406 x 406	355 x 355	379 x 379	£253.36	
LOPRO-IS 1818-50/6 DD1	18 x 18	457 x 457	406 x 406	430 x 430	£170.22	
LOPRO-IS 2020-50/6 DD1*	20 x 20	508 x 508	457 x 457	481 x 481	£277.78	
LOPRO-IS 2030-50/6 DD1*	20 x 30	508 x 762	457 x 711	481 x 735	£326.62	
STANDARD SQUARES AND RECTANGLES TO SUIT 50-52MM DOORS AND 24MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 0808-50/24 CB1	8 x 8	203 x 203	152 x 152	176 x 176	£106.79	
LOPRO-IS 0820-50/24 CB1	8 x 20	203 x 508	152 x 457	176 x 481	£170.22	
LOPRO-IS 0830-50/24 CB1	8 x 30	203 x 762	152 x 711	176 x 735	£186.75	
LOPRO-IS 0848-50/24 CB1*	8 x 48	203 x 1219	152 x 1168	176 x 1192	£427.35	
LOPRO-IS 0860-50/24 CB1*	8 x 60	203 x 1524	152 x 1473	176 x 1497	£528.08	
LOPRO-IS 1010-50/24 CB1	10 x 10	254 x 254	203 x 203	227 x 227	£150.04	
LOPRO-IS 1818-50/24 CB1*	18 x 18	457 x 457	406 x 406	430 x 430	£262.52	
LOPRO-IS 2020-50/24 CB1	20 x 20	508 x 508	457 x 457	481 x 481	£215.77	
LOPRO-IS 2030-50/24 CB1*	20 x 30	508 x 762	457 x 711	481 x 735	£326.62	
STANDARD SQUARES AND RECTANGLES TO SUIT 54-56MM DOORS AND 6MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER						
LOPRO-IS 0722-54/6 EE1*	7 x 22	178 x 559	127 x 508	151 x 532	£167.82	
LOPRO-IS 0808-54/6 EE1	8 x 8	203 x 203	152 x 152	176 x 176	£106.79	
LOPRO-IS 0820-54/6 EE1*	8 x 20	203 x 508	152 x 457	176 x 481	£225.89	
LOPRO-IS 0830-54/6 EE1*	8 x 30	203 x 762	152 x 711	176 x 735	£259.46	
LOPRO-IS 0860-54/6 EE1*	8 x 60	203 x 1524	152 x 1473	176 x 1497	£528.08	
LOPRO-IS 1022-54/6 EE1	10 x 22	254 x 559	203 x 508	227 x 532	£196.02	
LOPRO-IS 1030-54/6 EE1	10 x 30	254 x 762	203 x 711	227 x 735	£236.29	
LOPRO-IS 1212-54/6 EE1*	12 x 12	305 x 305	254 x 254	278 x 278	£158.73	
LOPRO-IS 1818-54/6 EE1*	18 x 18	457 x 457	406 x 406	430 x 430	£262.52	
LOPRO-IS 2020-54/6 EE1*	20 x 20	508 x 508	457 x 457	481 x 481	£277.78	
LOPRO-IS 2030-54/6 EE1*	20 x 30	508 x 762	457 x 711	481 x 735	£326.62	

Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door. Also available in stainless steel.

ANEMOSTAT-IS METAL VISION FRAMES

LOPRO-IS SELECTION GUIDE: 5 PROFILES = 15 COMBINATIONS



		GLAZING POCKET WITH DOOR THICKNESS RANGING FROM 40MM TO 60MM					
		40MM	45MM	50MM	55MM	60MM	
FIVE LOPRO-IS PROFILES: A, B, C, D, E (1 DENOTES SCREW SIDE)	AA1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS					
	AB1						
	AC1						
	DA1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS				
	EA1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS				
	BB1						
	CB1						

Remember to advise door thickness when ordering to receive correct length screws.

Screw side (1) always thinnest half.

ANEMOSTAT-IS METAL VISION FRAMES

LOPRO-IS SELECTION GUIDE: 5 PROFILES = 15 COMBINATIONS

		GLAZING POCKET WITH DOOR THICKNESS RANGING FROM 40MM TO 60MM				
		40MM	45MM	50MM	55MM	60MM
FIVE LOPRO-IS PROFILES: A, B, C, D, E (1 DENOTES SCREW SIDE)	DB1					
	EB1					
	CC1					
	DC1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS				
	EC1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS				
	DD1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS			
	ED1	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS	DOOR THICKNESS TOO SMALL TO ACCOMMODATE GLASS		
	EE1	NOTES Glazing pocket = Glazing material plus glazing tape. Manufacturing tolerances dimensions ± 0.8 mm. Actual dimensions are nominal and may vary based on manufacturing tolerances. A1, B1, C1, D1 & E1 = Screw side. A, B, C, D & E = Concealed fixing side. Screws available 38mm, 44mm, 51mm & 57mm.				

Remember to advise door thickness when ordering to receive correct length screws.

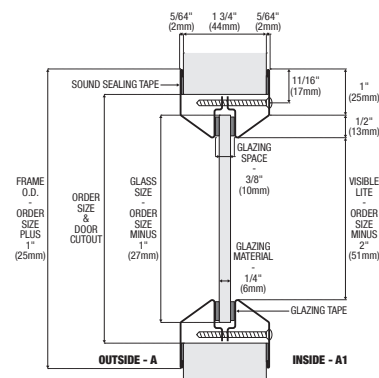
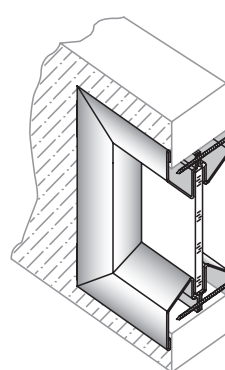
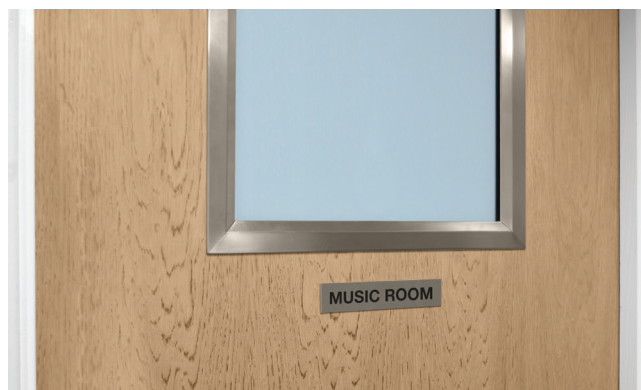
Screw side (1) always thinnest half.

ANEMOSTAT ACOUSTIC VISION FRAMES

LOPRO-STC LOW PROFILE ACOUSTIC RATED METAL VISION FRAME ASSEMBLY - NEW TESTING

After the successful launch of the Anemostat LoPro-STC acoustic vision frame set, we decided to further increase its depth of testing by undertaking some acoustic tests with the most popular glass types we are asked to supply here in the UK. The vision frame comes with Sound Sealing Tape applied to the underside perimeter of both frame sides, or supplied separate if requested. CAUTION: Sound Sealing Tape should not be exposed to a heat-treating process from post factory applied finishes, such as powder coating.

- Material:** 20GA cold rolled steel. Also available Grade 304 & 316 stainless steel to special order.
- Finish:** Galvanised grey primed as standard, other finishes available to special order.
- Door thickness:** For 44-46mm metal or timber doors. LoPro-IS suits other door and glass thicknesses.
- Glass thickness:** Profiles AA1 suit 6mm glass and BB1 suit 25mm glass (DGU) on 44-46mm doors.
- Tape:** Units should be installed with FS9009 or ZPGT sound sealing and glazing tape as tested.
- Aesthetics:** Tight mitred corners, bevelled glass stops, and low profile provide a clean tapered look, concealed fixing one side only.
- Test standards:** Tested size 610x610mm cut-out. Tested in accordance with BS EN ISO 10140-2:2010 Acoustics - Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation. Testing conducted at Exova, High Wycombe, UK. Copy of test report available upon request.



LoPro-STC AA1 with ZPGT Sound Sealing & Glazing Tape

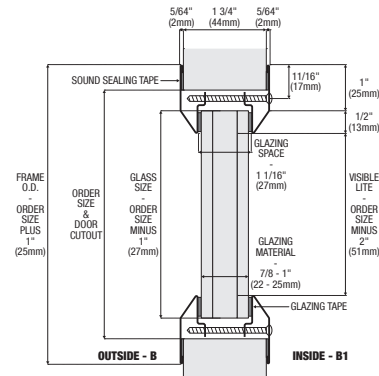
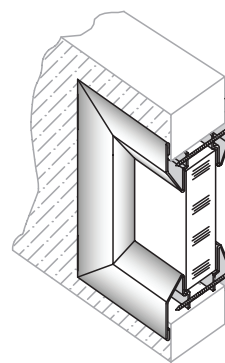
- 36dB with 6.4mm Laminated Glass
35dB with 6mm Toughened Glass
36dB with 7.5mm Anti-Bandit Laminated Glass

LoPro-STC AA1 with FS9009 Sound Sealing & Glazing Tape

- 34dB with 5mm Firelite Glass
36dB with 7.2mm Georgian Wired Glass
37dB with 9mm Firelite Laminated Glass

LoPro-STC BB1 with ZPGT Sound Sealing & Glazing Tape

- 38dB with 6mm Toughened Double Glazed Unit
39dB with 6.4mm Laminated Double Glazed Unit



LoPro-STC BB1 with FS9009 Sound Sealing & Glazing Tape

- 38dB with 5mm Firelite Double Glazed Unit

REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
LOPRO-STC LOW PROFILE ACOUSTIC RATED METAL VISION FRAME ASSEMBLY WITH ZPGT GLAZING TAPE & SOUND SEALING TAPE (GLASS NOT INCLUDED)					
LOPRO-STC-GT 1212 AA1	12 x 12	305 x 305	254 x 254	278 x 278	£92.36
LOPRO-STC-GT 1212 BB1	12 x 12	305 x 305	254 x 254	278 x 278	£145.77
LOPRO-STC-GT 1818 AA1	18 x 18	457 x 457	406 x 406	430 x 430	£133.76
LOPRO-STC-GT 1818 BB1	18 x 18	457 x 457	406 x 406	430 x 430	£213.84
LOPRO-STC-GT 2424 AA1	24 x 24	610 x 610	559 x 559	583 x 583	£158.23
LOPRO-STC-GT 2424 BB1	24 x 24	610 x 610	559 x 559	583 x 583	£322.91
LOPRO-STC LOW PROFILE ACOUSTIC RATED METAL VISION FRAME ASSEMBLY WITH FS9009 GLAZING TAPE & SOUND SEALING TAPE (GLASS NOT INCLUDED)					
LOPRO-STC-FS 1212 AA1	12 x 12	305 x 305	254 x 254	278 x 278	£100.90
LOPRO-STC-FS 1212 BB1	12 x 12	305 x 305	254 x 254	278 x 278	£154.31
LOPRO-STC-FS 1818 AA1	18 x 18	457 x 457	406 x 406	430 x 430	£142.30
LOPRO-STC-FS 1818 BB1	18 x 18	457 x 457	406 x 406	430 x 430	£222.38
LOPRO-STC-FS 2424 AA1	24 x 24	610 x 610	559 x 559	583 x 583	£166.77
LOPRO-STC-FS 2424 BB1	24 x 24	610 x 610	559 x 559	583 x 583	£331.44

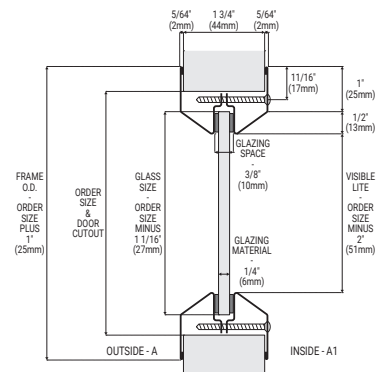
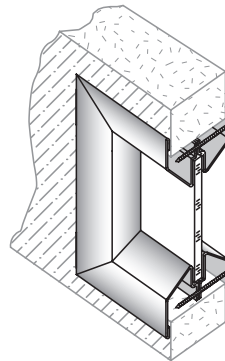
Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

ANEMOSTAT STAINLESS STEEL VISION FRAMES

LOPRO LOW PROFILE METAL VISION PANEL - TO SUIT 44-46MM THICK DOORS & 6MM THICK GLASS

The standard LoPro shown on pages 74-75 is galvanised mild steel, grey primed ready for powder coating. The LoPro is also available in stainless steel Grade 304 #4 satin finish in the sizes below from stock, and in Grade 316 #4 satin finish to special order.

- Material:** Grade 304 (and 316 stainless steel to special order).
- Finish:** #4 satin finish.
- Door thickness:** For 44-46mm metal or timber doors. LoPro-IS suits other door and glass thicknesses.
- Glass thickness:** 6mm as standard. Glass pocket of 10mm allows for glazing tape or compound to be used on one or both sides of the glass.
- Aesthetics:** Tight mitred corners, bevelled glass stop and low profile, provide a clean tapered look, concealed fixing one side only.
- Fire ratings:** Refer to page 74.
- Corrosion:** LoPro Grade 304 stainless steel vision frames have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



PROFILES AA1

A = Blind side A1 = Screw hole side

STANDARD RECTANGLES TO SUIT 44-46MM DOORS AND 6MM THICK GLASS, SATIN STAINLESS STEEL GRADE 304 - OTHER SIZES TO SPECIAL ORDER					
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	GRADE 304 PRICE
LOPRO-SS 0722	7 x 22	178 x 559	127 x 508	151 x 532	£275.72
LOPRO-SS 0730	7 x 30	178 x 762	127 x 711	151 x 735	£317.67
LOPRO-SS 0820	8 x 20	203 x 508	152 x 457	176 x 481	£358.06
LOPRO-SS 0830	8 x 30	203 x 762	152 x 711	176 x 735	£409.19
LOPRO-SS 1014	10 x 14	254 x 356	203 x 305	227 x 329	£329.62
LOPRO-SS 1022*	10 x 22	254 x 559	203 x 508	227 x 532	£464.49
LOPRO-SS 1048	10 x 48	254 x 1219	203 x 1168	227 x 1192	£693.36
LOPRO-SS 1060*	10 x 60	254 x 1524	203 x 1473	227 x 1497	£990.54
LOPRO-SS 1212	12 x 12	305 x 305	254 x 254	278 x 278	£191.78
LOPRO-SS 1818	18 x 18	457 x 457	406 x 406	430 x 430	£317.67
LOPRO-SS 1822	18 x 22	457 x 559	406 x 508	430 x 532	£404.62

Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

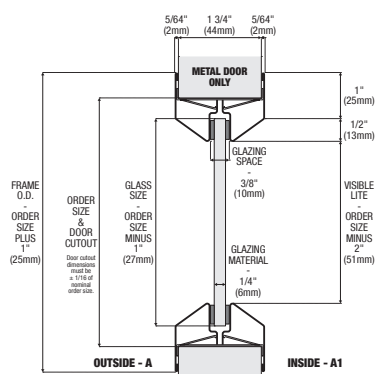
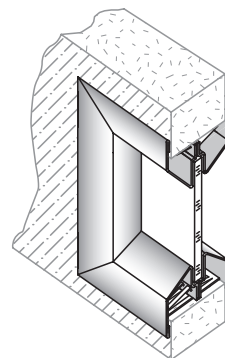
ANEMOSTAT KLIP TOGETHER FRAMES

LOPRO-K KLIP TOGETHER METAL VISION PANEL - TO SUIT 44MM THICK DOORS & 6MM THICK GLASS ONLY

The LoPro-K is quicker to install than screw type kits and provides a low profile, "flush to the door look". It installs with unique spring steel clips that affix to the perimeter of the door cut-out. Each side of the vision frame is then snapped into the cut-out, fastening itself to the internal clip, thus eliminating the need for any visible fasteners or screws. This adds security and gives a cleaner, more aesthetic appearance.

This kit only suits 44mm thick doors & 6mm glass. **NOT FIRE RATED.**

- Material:** 20GA cold rolled steel.
- Finish:** Galvanised grey primed as standard, other finishes available to special order.
- Door thickness:** For 44mm metal or timber doors. LoPro-K does not suit other door thicknesses.
- Glass thickness:** 6mm as standard. Glass pocket of 10mm allows for glazing tape or compound to be used on one or both sides of the glass.
- Aesthetics:** Tight mitred corners, bevelled glass stop and low profile, provide a clean tapered look with no screw holes on either side of the door.



PROFILES AA

A = Blind side

KLIP TOGETHER RECTANGLES AND CIRCLES TO SUIT 44MM DOORS AND 6MM GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
LOPRO-K 1022*	10 x 22	254 x 559	203 x 508	227 x 532	£168.91
LOPRO-K 1030	10 x 30	254 x 762	203 x 711	227 x 735	£132.15
LOPRO-K 1212*	12 x 12	305 x 305	254 x 254	278 x 278	£105.82
LOPRO-K 1818*	18 x 18	457 x 457	406 x 406	430 x 430	£175.01
LOPRO-K 2020*	20 x 20	508 x 508	457 x 457	481 x 481	£185.19
LOPRO-K 2030	20 x 30	508 x 762	457 x 711	481 x 735	£154.16
LOPRO-K 2432	24 x 32	610 x 813	559 x 762	583 x 786	£154.16

Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

ANEMOSTAT METAL VISION FRAMES

FGS-75 RECTANGULAR METAL VISION PANEL - TO SUIT 44-46MM THICK DOORS & 6MM THICK GLASS

The FGS is installed by drilling 6mm holes through the door, around the perimeter of the door cut-out, and bolting through.

Material: 18GA cold rolled steel and Grades 304 and 316 stainless steel.

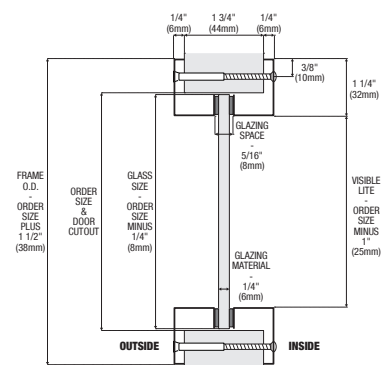
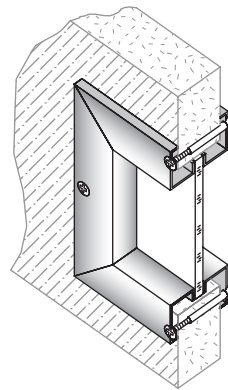
Finish: Galvanised grey primed as standard, other finishes available to special order.

Door thickness: For 44-46mm metal or timber doors. FGS-IS suits other door thicknesses.

Glass thickness: 6mm as standard, glass pocket of 8mm allows for tape or compound to be used on one or both sides of the glass.

Aesthetics: Tight mitred corners, 90° angle on glass stop gives maximum visible light area.

Fixings: Special security fasteners available, see page 114.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 6MM THICK GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
FGS-75 1022*	10 x 22	254 x 559	229 x 534	246 x 551	£223.85
FGS-75 1030*	10 x 30	254 x 762	229 x 737	246 x 754	£242.17
FGS-75 1048*	10 x 48	254 x 1219	229 x 1194	246 x 1211	£384.62
FGS-75 1212*	12 x 12	305 x 305	280 x 280	297 x 297	£179.08
FGS-75 1818*	18 x 18	457 x 457	432 x 432	449 x 449	£229.96
FGS-75 2020*	20 x 20	508 x 508	483 x 483	500 x 500	£248.27
FGS-75 2030*	20 x 30	508 x 762	483 x 737	500 x 754	£288.97
FGS-75 2432*	24 x 32	610 x 813	585 x 788	602 x 805	£297.11
NON-STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 35MM GLASS, GALV GREY PRIMED					
FGS-IS 1030-44/35	10 x 30	254 x 762	229 x 737	246 x 754	£264.58
FGS-IS 1616-44/35	16 x 16	406 x 406	381 x 381	398 x 398	£243.14
NON-STANDARD SQUARES AND RECTANGLES TO SUIT 54-56MM DOORS AND 35MM GLASS, GALV GREY PRIMED					
FGS-IS 1030-54/35	10 x 30	254 x 762	229 x 737	246 x 754	£264.58
FGS-IS 1616-54/35	16 x 16	406 x 406	381 x 381	398 x 398	£243.14

Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

BFL-75 RECTANGULAR METAL VISION PANEL - TO SUIT 44-46MM THICK DOORS & 6MM THICK GLASS

The BFL is installed by drilling 6mm holes through the door, around the perimeter of the door cut-out. Frame has countersunk mounting holes for #8x32 Phillips head steel through bolts with blank head on one side for flush appearance.

Material: 18GA cold rolled steel and Grades 304 and 316 stainless steel.

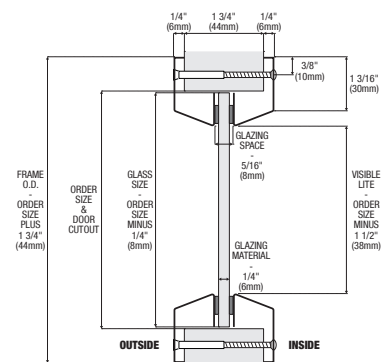
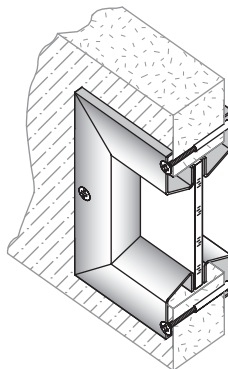
Finish: Galvanised grey primed as standard, other finishes available to special order.

Door thickness: For 44-46mm metal or timber doors.

Glass thickness: 6mm as standard, glass pocket of 8mm allows for tape or compound to be used on one or both sides of the glass.

Aesthetics: Tight mitred corners, bevelled glass stop for a clean tapered look.

Fixings: Special security fasteners available, see page 114.



STANDARD SQUARES AND RECTANGLES TO SUIT 44-46MM DOORS AND 6MM THICK GLASS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
BFL-75 1022*	10 x 22	254 x 559	216 x 521	246 x 551	£335.78
BFL-75 1030*	10 x 30	254 x 762	216 x 724	246 x 754	£363.25
BFL-75 1048*	10 x 48	254 x 1219	216 x 1181	246 x 1211	£579.92
BFL-75 1212*	12 x 12	305 x 305	267 x 267	297 x 297	£268.62
BFL-75 1818*	18 x 18	457 x 457	419 x 419	449 x 449	£344.93
BFL-75 2020*	20 x 20	508 x 508	470 x 470	500 x 500	£372.41
BFL-75 2030*	20 x 30	508 x 762	470 x 724	500 x 754	£433.46
BFL-75 2432*	24 x 32	610 x 813	572 x 775	602 x 805	£445.67

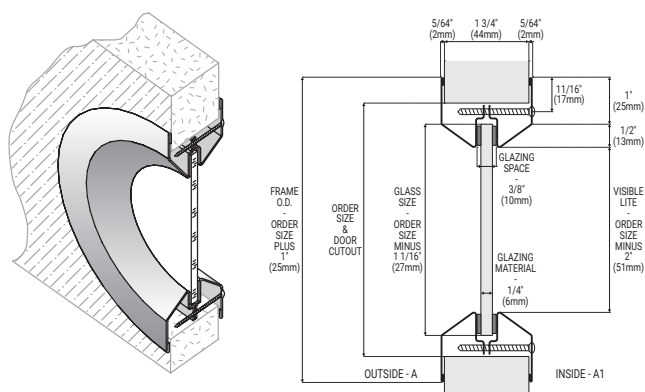
Other sizes available from 102 x 102mm up to 813 x 1829mm cut-out in door.

ANEMOSTAT ROUND METAL VISION FRAMES

LO-FP & LO-FP-IS ROUND METAL PORTHOLE VISION FRAMES

The Lo-FP range of portholes is available in two diameters: Lo-FP-12 suits a 305mm diameter cut-out in the door and Lo-FP-18 suits a 457mm diameter cut-out. Both sizes are easy to install and provide a low profile, "flush to the door look". Sheet metal screws pass through the door cut-out, and fasten to the opposite side of the vision frame, thus eliminating the need to drill the door for through bolts and saving installation time and labour. It also leaves the corridor side of the frame free of fasteners for added security and a cleaner, more aesthetic appearance.

- Material:** 20GA mild steel. Stainless steel no longer available.
- Finishes:** Zinc plated grey primed as standard.
- Aesthetics:** Smooth round contour of low profile frame style gives a unique design to any setting.
- Fixings:** Special security fasteners available, see page 114.



Lo-FP-12 AA1 illustrated, dimensions vary for other sizes and profiles.

Fire tested to 4 hours on steel doors and 1 hour on timber doors when used with Zero FS9009 "ceramic type" glazing tape and FS4004 aperture liner (on timber doors) with suitable glass shown on page 95.

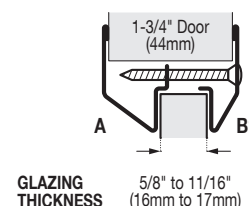
Door and glass thickness: Lo-FP is now available in two profiles to suit standard 6mm glass (Profiles AA1), and 22-25mm double glazed units (profiles BB1) on standard 44mm thick doors. Using one A profile and one B profile (profiles AB1) suits 16mm glass on 44mm thick doors, and 7mm glass on 35mm thick doors. Unlike the Slimport designs (on pages 88-92) which fix through the bevel and have two different halves, Lo-FP portholes consist of two similar halves which fix through the flat face of the porthole. This means the glazing pocket will increase in direct proportion to the door thickness. The simplest way to think about it is that if you add or deduct 10mm to the door thickness, you also add or deduct 10mm to the glazing pocket. All that will be required is longer or shorter screws for fixing purposes.

PROFILES AA1 (GLASS CENTRAL IN DOOR)								
DOOR THICKNESS	35mm	40mm	44mm	50mm	54mm	57mm	60mm	65mm
GLAZING POCKET	-	6mm	10mm	16mm	20mm	23mm	26mm	31mm
PROFILES AB1 (GLASS OFFSET IN DOOR)								
DOOR THICKNESS	35mm	40mm	44mm	50mm	54mm	57mm	60mm	65mm
GLAZING POCKET	10mm	15mm	19mm	25mm	29mm	32mm	35mm	40mm
PROFILES BB1 (GLASS CENTRAL IN DOOR)								
DOOR THICKNESS	35mm	40mm	44mm	50mm	54mm	57mm	60mm	65mm
GLAZING POCKET	18mm	23mm	27mm	33mm	37mm	40mm	43mm	48mm

Longer screws may be required for thicker doors.

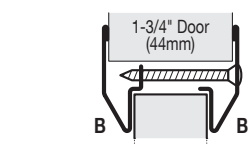
	FINISH	AA1 PROFILES 44mm Door 6mm Glass (10mm Pocket)	BB1 PROFILES 44mm Door 25mm Glass (27mm Pocket)	
LO-FP-12 305mm Cut-out 254mm Clear Vision 278mm Glass Diameter 330mm Outside Frame 959mm Circumference 4 Mounting Holes	Mild steel Zinc plated grey primed	Lo-FP-AA1-12-GGP	Lo-FP-BB1-12-GGP	
		£230.00 set	£278.00 set	
LO-FP-18 457mm Cut-out 406mm Clear Vision 430mm Glass Diameter 483mm Outside Frame 1436mm Circumference 8 Mounting Holes	Mild steel Zinc plated grey primed	Lo-FP-AA1-18-GGP	Lo-FP-BB1-18-GGP	
		£360.00 set	£437.00 set	

AB1 profiles same price as BB1 profiles.



GLAZING THICKNESS 5/8" to 1 1/16"
(16mm to 17mm)

GLAZING SPACE 3/4"
(19mm)



GLAZING THICKNESS 7/8" to 1"
(22mm to 25mm)

GLAZING SPACE 1 1/16"
(27mm)

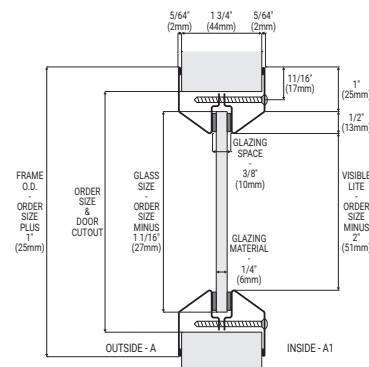
A, B = concealed fix side.
A1, B1 = screw fix side.
GGP = zinc plated grey primed.
Circumference = πd .
Area = πr^2 .
 $Pi = \pi = 22/7 = 3.141592$.

GLASS (FOR FIRE RATED AND NON-FIRE RATED DOORS)	DIAMETER 278MM		DIAMETER 430MM	
6.4mm laminated clear safety glass (non-fire rated) see page 94	LAM278	£39.36	LAM430*	£50.35
7.2mm thick clear GWP safety (1/2hr fire rated) see page 95	GWP278	£71.82	GWP430	£124.31
8mm thick clear fire resistant glass (1/2hr & 1hr rated) see page 95	PGT278*	£170.00	TESTING PENDING	
9mm thick clear laminated Firelite (4hr fire rated) see page 95	FIR9278*	£371.56	FIR9430*	£596.36

ANEMOSTAT CUSTOM SHAPE FRAMES

LoPro rectangular frames as shown on pages 74-79 can also be manufactured in different shapes when something out of the ordinary is required. The most popular designs are shown below but other shapes are available to special order, please enquire. In the past, curved shaped vision panels used to be available in any diameter but are now limited to the diameters of Lo-FP-12 and 18. Please note the LoPro-RD segmented pattern, LoPro-R racetracks and LoPro-RC round corner are discontinued although we may still have stocks available. The Lo-FP and LoPro designs use sheet metal screws that pass through the door cut-out, and self-attach to the opposite side of the vision frame, thus eliminating the need to drill the door for through bolts and saving installation time and labour. This provides a neat concealed fixing on one side, free of fasteners for added security and a cleaner more aesthetic appearance. Most products are available in A and B profiles, but not all products are available in C, D and E profiles, please see details below. Please enquire for prices, lead-times and fully dimensioned drawings.

- Material:** 20GA cold rolled steel as standard. Non-curved designs also available Grade 304 stainless steel to order. Curved products are not available in stainless steel.
- Finish:** Mild steel is galvanised grey primed as standard, stainless steel is #4 satin finish.
- Door thickness:** A profiles for 44-46mm thick metal or timber doors. B, C, D & E profiles for different door and glass thickness combinations as shown on pages 76-79. Curved shapes only available A and B profiles.
- Glass thickness:** AA1 profiles suit 6mm as standard on 44mm thick doors (10mm pocket), and BB1 suit 24mm glass (27mm pocket). The glass pocket allows for glazing tape to be used on one or both sides of the glass.
- Aesthetics:** Tight mitred corners, bevelled glass stop and low profile, provide a clean tapered look.
- Fire ratings:** Refer to page 74.



LOPRO-CS CUSTOM SHAPES, NON-CURVED

Available in A, B, C, D & E profiles. Mild steel and stainless steel. Specify size required.



**ISOSCELES
TRAPEZOID***



**CHRISTIAN
CROSS***



HEXAGON*



TRIANGLE*



**TRIANGULAR
TOP***



TRAPEZOID*



OCTAGON*



KITE*

LOPRO-CS CUSTOM SHAPES, CURVED

Only available in A profile (12" and 18" diameters) and B profile (12" and 18" diameters). Mild steel only. Specify height required.



QR-12*



QR4C-6*



HCTB-12*



HCT-18*



QR1C-9*



QR2C-6*

LOPRO-CS-HC CUSTOM SHAPES, HALF CIRCLE

Available in A and B profiles (AA1, AB1 and BB1). Mild steel only.

HALF CIRCLE

HC-12* 305mm width cut-out
HC-18* 457mm width cut-out



HALF CIRCLE, TOP ONLY

HCT-12* 305mm width cut-out
HCT-18* 457mm width cut-out
(specify height required)



HALF CIRCLE, TOP AND BOTTOM

HCTB-12* 305mm width cut-out
HCTB-18* 457mm width cut-out
(specify height required)



LOPRO-CS-QR CUSTOM SHAPES, QUARTER RADIUS

Available in A and B profiles (AA1, AB1 and BB1). Mild steel only.

QUARTER RADIUS

QR-6* 152mm radius
QR-9* 229mm radius
(2 sets illustrated)



QUARTER RADIUS WITH 4 CURVES

QR4C-6* 152mm radius
QR4C-9* 229mm radius
(specify width and height required)



QUARTER RADIUS WITH 1 CURVE

QR1C-6* 152mm radius
QR1C-9* 229mm radius
(specify height required)



QUARTER RADIUS WITH 2 CURVES

QR2C-6* 152mm radius
QR2C-9* 229mm radius
(specify height required)



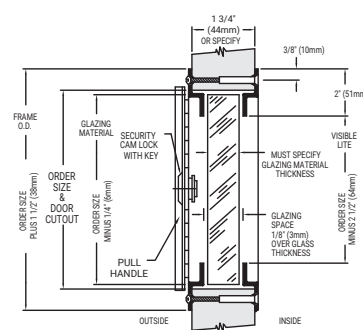
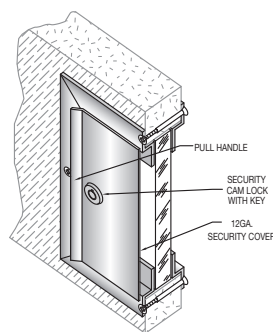
RECOMMENDATION: DO NOT MAKE CUT-OUTS IN DOORS OR ORDER GLASS PRIOR TO RECEIVING CUSTOM SHAPED FRAMES.

ANEMOSTAT SECURITY VISION FRAMES

SG-12-LSC HIGH SECURITY METAL VISION FRAME WITH LOCKING SECURITY COVER

Heavy duty metal vision frame providing high security with 12GA hinged panel to one side. Hinged panel spot welded to one side of frame with continuous hinge and closes with a key operated cam lock. If more than one unit is ordered, locks are supplied to pass. Installed by drilling 6.4mm holes through the door, around the perimeter of the frame. Frame has countersunk mounting holes for thru-bolts with a blank head on one side for security and flush appearance. Security thru-bolts available to special order.

- Material:** 12GA cold rolled steel (galvanised or stainless steel to be specified for external use).
- Finish:** Grey primed, beige, white or bronze baked enamel.
- Door thickness:** For 44mm metal or timber doors as standard, but available to suit doors up to 57mm thick.
- Glass thickness:** Thickness can range from 5mm to 38mm but needs to be specified when ordering. Glass supplied separately.



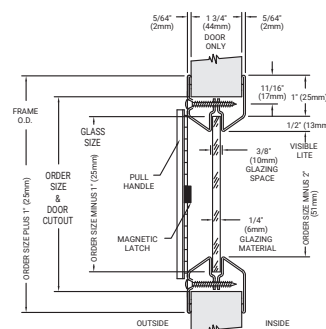
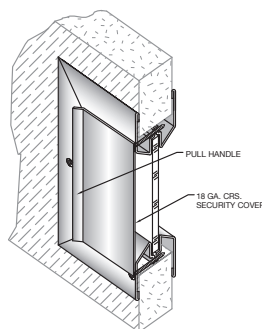
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE	UNIT
SG-12-LSC 0808*	8 x 8	203 x 203	139 x 139	197 x 197	£916.77	set
SG-12-LSC 1212*	12 x 12	305 x 305	241 x 241	299 x 299	£899.47	set
SG-12-LSC 1230*	12 x 30	305 x 762	241 x 698	299 x 756	£1,591.37	set

Available any size to special order.

LOPRO-SC METAL VISION FRAME WITH OPERATING SECURITY COVER

Metal vision frame based on LoPro design with 18GA hinged panel to one side. Hinged panel spot welded to frame with continuous hinge and closes to a magnetic catch. Opens with a metal finger pull. Installed with 44mm sheet metal screws that pass through the door cut-out, and fasten to the opposite side of the vision frame, thus eliminating the need to drill the door for thru-bolts and saving installation time and labour. It also leaves the corridor side of the frame free of fasteners for added security and a cleaner, more aesthetic appearance.

- Material:** 20GA cold rolled steel (18GA hinged panel).
- Finish:** Grey primed as standard; beige, white or bronze baked enamel to order.
- Door thickness:** For 44-46mm metal or timber doors. LoPro-IS-SC suits other door thicknesses.
- Glass thickness:** 6mm as standard. Glass pocket of 10mm allows for glazing tape or compound to be used on one or both sides of the glass. Glass supplied separately



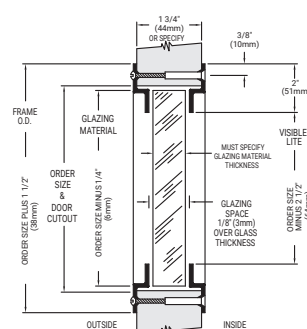
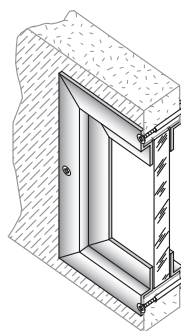
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE	UNIT
LOPRO-SC 0808*	8 x 8	203 x 203	152 x 152	176 x 176	£323.57	set
LOPRO-SC 1212*	12 x 12	305 x 305	254 x 254	278 x 278	£317.46	set
LOPRO-SC 1230*	12 x 30	305 x 762	254 x 711	278 x 735	£561.66	set

Available any size to special order.

SG-10 HIGH SECURITY METAL VISION FRAME FOR SPECIAL GLASS OR DOOR THICKNESS

Heavy duty metal vision frame providing maximum security manufactured from heavy gauge steel. Designed to suit varying door and glass thickness - please specify when ordering. Installed by drilling 6.4mm holes through the door, around the perimeter of the frame. Frame has countersunk holes for thru-bolts with a blank head on one side for security and flush appearance. Security thru-bolts available to special order.

- Material:** 10GA cold rolled steel frame on glass 6.4mm - 25.4mm thick, 12GA on glass 25.4mm - 38.1mm thick.
- Finish:** Grey primed as standard; beige, white or bronze baked enamel to order.
- Door thickness:** For 44mm metal or timber doors as standard, but available to suit doors up to 57mm thick.
- Glass thickness:** Thickness can range from 5mm to 38mm but needs to be specified when ordering. Please allow a glazing space of 3.2mm over the glass thickness to accommodate glazing tape or compound on one or both sides of the glass. Glass supplied separately.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE	UNIT
SG-10 0808*	8 x 8	203 x 203	139 x 139	197 x 197	£593.20	set
SG-10 1212*	12 x 12	305 x 305	241 x 241	299 x 299	£582.01	set
SG-10 1230*	12 x 30	305 x 762	241 x 698	299 x 756	£1,029.71	set

Available any size to special order.

FULL CATALOGUE AVAILABLE SHOWING MANY SIMILAR PRODUCTS.

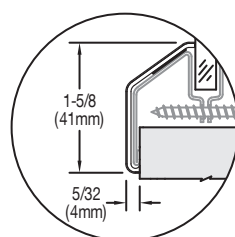
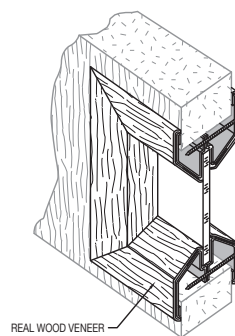
ANEMOSTAT WOODPRO™ METAL VISION FRAMES

LOPRO WOODPRO™ VENEER METAL VISION FRAMES - TO SUIT 44-46MM THICK DOORS & 6MM GLASS

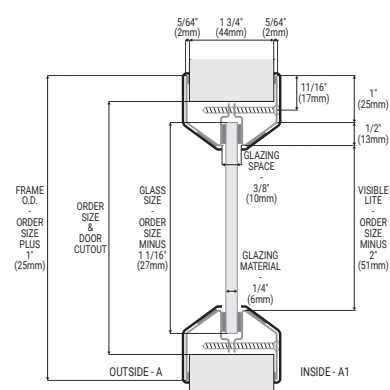
The standard LoPro shown on pages 74-75 is galvanised mild steel, grey primed ready for powder coating. However it is also available as WoodPro™ with unfinished real wood veneers over PVC profiles which fasten to the LoPro metal vision frame with double sided adhesive tape. The veneers conceal the frame screw fixings and are available red oak, mahogany and maple.

Note: for internal use only.

- Material:** 20 GA cold rolled steel frame. PVC and wood veneer.
- Finish:** Unfinished red oak, maple or mahogany veneers over beige enamel LoPro.
- Sizes:** Minimum width of door cut-out 102mm. Maximum height of door cut-out 1829mm. Sizes available in inch increments, not available in fractional sizes.
- Installation:** WoodPro™ is easy to install and provides a low profile, flush to the door real wood finish. Uses 44mm sheet metal screws that pass through the door cut-out, and fastens to the opposite side of the vision frame. The formed wood veneers are pre-mitred with self-adhesive tape for ease of installation. Wood putty or putty stick may be required at mitres to fill any small gaps.
- Door thickness:** For 44-46mm metal or timber doors. Not available to suit other door thicknesses.
- Glass thickness:** 6mm as standard. Glass pocket of 10mm allows for glazing tape or compound to be used on one or both sides of the glass.
- Aesthetics:** No visible screws once veneers are in place. Tight mitred corners, bevelled glass stop and low profile, provide a clean tapered look.
- Fire ratings:** Tested for 30 minutes on timber door to BS EN 1634-1:2008. Actual size tested 410mm x 711mm.



Dimensions for Wood Veneers



RED OAK



MAPLE



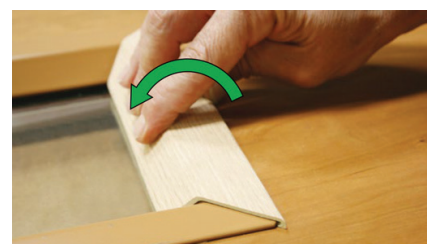
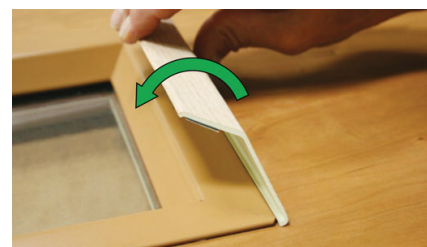
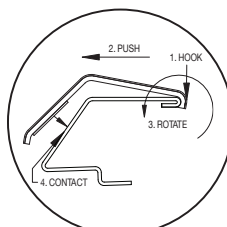
MAHOGANY

REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	CLEAR VISION MM W X H	GLASS SIZE MM (NOT INCLUDED)	PRICE
WOODPRO 0808*	8 x 8	203 x 203	152 x 152	176 x 176	£191.27
WOODPRO 0820*	8 x 20	203 x 508	152 x 457	176 x 481	£338.62
WOODPRO 0830*	8 x 30	203 x 762	152 x 711	176 x 735	£304.75
WOODPRO 0848*	8 x 48	203 x 1219	152 x 1168	176 x 1192	£636.48
WOODPRO 0860*	8 x 60	203 x 1524	152 x 1473	176 x 1497	£788.26
WOODPRO 1010*	10 x 10	254 x 254	203 x 203	227 x 227	£185.24
WOODPRO 1022*	10 x 22	254 x 559	203 x 508	227 x 532	£292.68
WOODPRO 1030*	10 x 30	254 x 762	203 x 711	227 x 735	£322.64
WOODPRO 1048*	10 x 48	254 x 1219	203 x 1168	227 x 1192	£519.77
WOODPRO 1060*	10 x 60	254 x 1524	203 x 1473	227 x 1497	£639.25
WOODPRO 1212*	12 x 12	305 x 305	254 x 254	278 x 278	£185.24
WOODPRO 1616*	16 x 16	406 x 406	355 x 355	379 x 379	£304.75
WOODPRO 1818*	18 x 18	457 x 457	406 x 406	430 x 430	£304.75
WOODPRO 2020*	20 x 20	508 x 508	457 x 457	481 x 481	£328.56
WOODPRO 2424*	24 x 24	610 x 610	559 x 559	583 x 583	£334.55

Other sizes available from 102 x 102mm up to 914 x 1829mm cut-out in door.

INSTALLATION INSTRUCTIONS

- Install LoPro vision frame and glass in door.
- If WoodPro is over 36" in height, install veneers only when door is in a horizontal (flat) position.
- If veneers are for a rectangular kit, install the two short pieces first.
- Due to manufacturing tolerances inherent in the process, there may be a slight gap in the mitred corners. If this is the case, use matching wood putty or putty stick to fill. Sand lightly to blend and stain and seal as normal.
- Wash hands prior to installing veneer strips.
- It is recommended that clean cotton gloves (not included) be used when handling and installing veneer strips.
- Avoid using oils, greases or cleaners on this product.
- Apply adhesive squares to corners of LoPro and peel protective backer.
- Pull protective strip from adhesive tape on inside of veneer.
- Place long edge of veneer against outside portion of vision frame using mitres as alignment guide.
- Rotate veneer towards glass.
- Use pressure from fingers to adhere tape to frame.
- Slide fingers with slight pressure along bevel to ensure proper contact.



WALLPORT CIRCULAR VISION FRAMES FOR WALLS

Slimports have always looked good in doors but we are now pleased to offer an adaptation of the Slimport range for fixing into internal walls. Where a client wants to continue the Slimport theme throughout a building, specially manufactured Wallports incorporating a tube shaped wall sleeve liner can now be fitted to adjacent walls and partitions. For restaurants, shops, stadia, cinemas, exhibition booths or just where something a bit different is required, wall portholes can make a real statement and continue the design theme throughout a building.

Based on the popular SP450, the Wallport provides 400mm diameter clear vision. The standard set consists of two pre-drilled 10mm thick zinc plated mild steel Part A Slimport rings (SP435), a tubular wall sleeve to suit either 100mm or 150mm thick walls, two pieces of 6.4mm laminated safety glass and double sided adhesive security glazing tape. The set will give a clear vision of 400mm diameter with the Wallport rings having an outside frame diameter of 485mm. The cut-out in the wall has to be 430mm diameter.



- Popular Slimport design.
- Suitable for walls, minimum 60mm thick, no maximum thickness.
- Standard set 400mm diameter clear vision.
- Available zinc plated mild steel (GV) and colour coated steel (CC).
- Not fire-rated.
- Complements Slimports fitted into doors.

INSTALLATION

The wall sleeve is fitted within a 430mm diameter hole in the wall and then a piece of safety glass is secured to the sleeve's flanges at both ends with the double-sided glazing tape. Each Slimport ring is then screw fixed to the face of the wall on both sides, with security glazing tape mounted to the inner flange. Upon tightening, the inner flange of each ring compresses up against the glass to provide a secure fix. Each ring has six mounting holes drilled in the face (not countersunk), fixings not supplied.

WALL THICKNESS

The wall thickness should be a minimum of 60mm and be specified at the time of ordering; we will then manufacture the set to suit; manufacturing lead-times should be allowed. Standard wall thicknesses are 100mm and 150mm. There is no maximum wall thickness this set will suit. Tube must be 35mm less than the wall thickness.

GLASS & GLAZING TAPE

Two pieces of 6.4mm thick clear laminated safety glass are provided as standard. Where privacy is required, 6.4mm thick laminated glass with a white PVB interlayer can be supplied frosted to give an opaque appearance. Both of these glasses are non-fire rated. Other types of glass are available to special order, see page 94. Corporate logos can be incorporated in the glass to client specification.

It is recommended to use ZPGT-1010/DS PVC black foam glazing tape. This tape is 1.0mm thick x 10mm wide and is supplied in 50 metre coils. It is self-adhesive double sided glazing tape and has a service temperature of -20°C to +90°C. Other sizes of tape are available, see page 96 for details.

FIRE RATING

Please note these units have not been fire tested and should be used internally only. Not suitable for use on fire rated walls.

FINISHES

Wallport is only manufactured in mild steel and is not currently available in stainless steel. The standard finish is zinc plated (GV) but it can be powder coated to any standard RAL colour (CC). Powder coating set up charges may apply depending on RAL colour selected and quantity ordered. The finish of the sleeve is zinc plated.

SIZES

Wallport is based on the SP450 Slimport giving 400mm clear vision. Depending on the quantity required it may be possible to utilise the three other diameters: SP250 giving 200mm clear vision, SP350 giving 300mm clear vision and SP550 giving 500mm clear vision.

COMPLETE WALLPORT SET COMPRISING RINGS, WALL SLEEVE, GLASS & GLAZING TAPE							
REF	WALL THICKNESS	CUT-OUT	CLEAR VISION	FINISH	PRICE	UNIT	BOX QTY
SP435.W.100.GV*	To suit a 100mm thick wall	430mm diameter	400mm diameter	Mild steel - zinc plated	£542.80	set	1
SP435.W.100.CC*	To suit a 100mm thick wall	430mm diameter	400mm diameter	Mild steel - powder coated	£698.05	set	1
SP435.W.150.GV*	To suit a 150mm thick wall	430mm diameter	400mm diameter	Mild steel - zinc plated	£556.21	set	1
SP435.W.150.CC*	To suit a 150mm thick wall	430mm diameter	400mm diameter	Mild steel - powder coated	£711.26	set	1
SPARE GLASS & GLAZING TAPE IF ORDERED SEPARATELY							
REF	DESCRIPTION				PRICE	UNIT	
LAM423	6.4mm thick laminated clear safety glass (non-fire rated), 423mm diameter (2 pieces)				£92.74	pair	
LAM423/F	6.4mm thick laminated white glass, opaque appearance (non-fire rated), 423mm diameter (2 pieces)				£209.59	pair	
ZPGT-1010/DS	1.0mm thick x 10mm wide x 50 metre roll self-adhesive double sided glazing tape, black				£21.20	roll	

EACH WALLPORT SET COMPRISES THE FOLLOWING COMPONENTS:

- 1 x Set SP435 Part A GV mild steel Slimport rings (2 rings).
- 1 x WP.100 or WP.150 zinc plated Wallport wall sleeve (or other size to order).
- 2 x LAM423 or LAM423/F 423mm diameter laminated glass circles.
- 1 x ZPGT-1010/DS coil self-adhesive black double sided glazing tape.



We are always open to new ideas for how our popular Slimport range can be adapted for use elsewhere in buildings other than on doors. Suggestions from customers over the years have resulted in bezels for kitchen work surfaces (see page 155) and now portholes for walls so please contact us if you think our Slimports can do something a bit different for you.

SLIMPORT CIRCULAR METAL VISION FRAMES

The **ZEROplus** top selling Slimport is a circular vision frame for installation in doors, walls and partitions. It is available to suit four different door cut-outs: 250mm, 350mm, 450mm and 550mm*. With countersunk holes in the bevel return on one side only, and 25mm screws that pass through the door cut-out and fix internally, the Slimport looks good aesthetically, and is totally free from visible fixings on the corridor side.

INSTALLATION

The Slimport low projection porthole is available in four diameters and offers concealed fixing one side, and screw fixing through the bevel on the other side. The fixing screws pass through the door cut-out and fasten to the opposite side of the vision frame, eliminating the need to drill the door for through fixing bolts. They are designed for flush fitting to both steel and timber doors.

Each set is supplied complete with all fixing screws and instructions. Glazing tape, intumescent aperture liners and glass should be ordered separately. The door cut-out should be the same size as the order size of the vision frame i.e. 250mm, 350mm, 450mm or 550mm.

Please note products supplied in zinc finish should be painted by the customer before supplying to site. Zinc finish is not a satisfactory final site finish and may be considered unsightly.

FIRE TESTING

Mild steel and stainless steel Slimport glazed vision panel systems are assessed for up to 60 minutes on previously successfully fire tested timber based doorsets and up to 240 minutes on insulated and uninsulated steel based doorsets (mild steel, galv steel and stainless steel) with respect to BS EN 1634-1:2000 and/or BS 476-22:1987. WF Assessment Report No 190869 Issue 7 refers. Copy available upon request.

Slimport frames must be used in the same configuration as tested with an aperture of the same size as that proposed being used (vision or louvre acceptable). Doors must have been previously tested to the relevant standard. All four sizes of Slimport are covered by the assessment, as are mild steel and stainless steel frames. Some glasses are assessed to EN, but others have BS approval only. See Report for full listing. FS4004 intumescent aperture liners should be used on timber doors, FS9009 "ceramic type" glazing tape should be used on timber and steel doors, prices on pages 98-99. **NO TIME CONSUMING HARDWOOD DOOR LIPPING IS NECESSARY.**

If Slimports are being specified for fire rated doors, it is important to use the glass, glazing tape and intumescent liners in the combinations as detailed in the Report.

CORROSION

Stainless steel Slimports have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

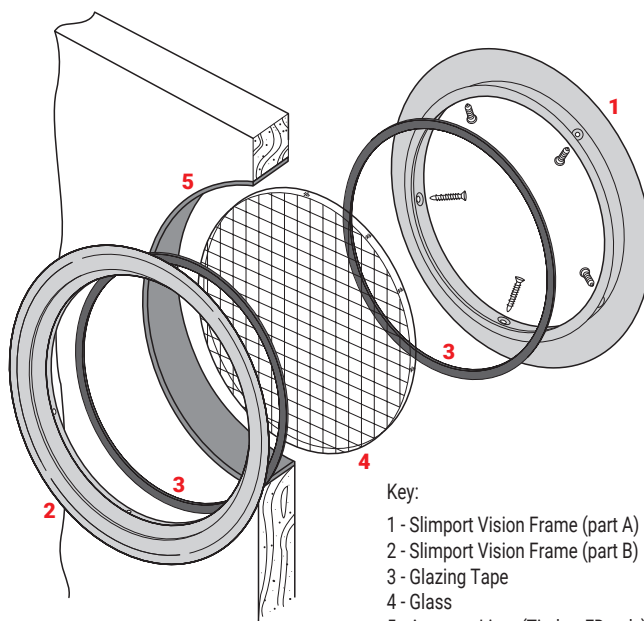
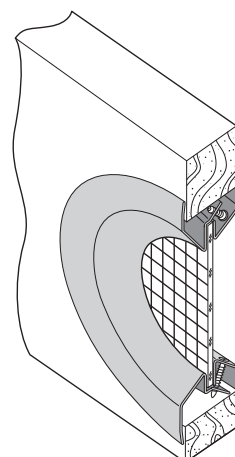
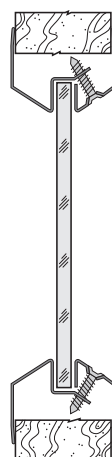
DOOR AND GLASS THICKNESS

Slimports are available to suit the four most popular door thicknesses of 40mm, 44mm, 50mm and 54mm with a tolerance either way of ± 2 mm. The glazing pocket is 10mm wide (± 2 mm in relation to the door thickness) to accommodate 6mm thick glass and appropriate glazing tape. If you have other door and glass thickness combinations please contact us regarding availability. Also see page 91.

REF	DESCRIPTION
SPX50.40	Two-part ring set to suit 38-42mm thick door and 6mm glass (glass central in door)
SPX50.44	Two-part ring set to suit 42-46mm thick door and 6mm glass (glass central in door)
SPX50.50	Two-part ring set to suit 47-51mm thick door and 6mm glass (glass offset in door)
SPX50.54	Two-part ring set to suit 52.56mm thick door and 6mm glass (glass central in door)

To obtain the reference for different diameter Slimports, simply change the '250' in the references above to '350', '450', or '550'. The suffix 'SS' refers to satin stainless steel - please refer to page 90 for other finishes available.

SP550 DIAMETER CUT-OUT SLIMPORTS WILL BE DISCONTINUED WHEN STOCK IS SOLD.



Key:

- 1 - Slimport Vision Frame (part A)
- 2 - Slimport Vision Frame (part B)
- 3 - Glazing Tape
- 4 - Glass
- 5 - Aperture Liner (Timber FD only)

SLIMPORT CIRCULAR METAL VISION FRAMES

GLASS

Glass is available in four diameters to suit the four diameters of Slimports. Glass size is 27mm less than cut-out size for each diameter. Slimports have a 10mm glazing pocket to accommodate glass and glazing tape (either standard foam, fire rated intumescent tape or "ceramic type" tape) so it is important to use glass nominally 6mm thick (i.e. 5-7mm thick). If using 9mm Firelite it is important to use the thinnest FS9009 glazing tape available i.e. 2mm thick. Area of circle = πr^2 .

We recommend and stock four different types of glass to suit visual and fire rating requirements:

	223MMØ	323MMØ	423MMØ	523MMØ
LAM 6.4MM THICK LAMINATED CLEAR SAFETY GLASS (Non-fire rated)	LAM223	LAM323	LAM423	LAM523
GWP 7.2MM THICK CLEAR GEORGIAN WIRE PLATE SAFETY GLASS (30 minute fire rated)	GWP223	GWP323	GWP423	GWP523
PGT 8.0MM THICK CLEAR MODIFIED TOUGHENED FIRE RESISTANT GLASS (60 minute fire rated)	TESTING PENDING			
FIR 9.0MM THICK CLEAR LAMINATED GLASS CERAMIC (240 minute fire rated)	FIR9223	FIR9323	FIR9423	FIR9523

Clear glasses can be supplied frosted to give opaque appearance for store rooms and toilet lobbies. The glass can also be etched with corporate logos (to order) or with sex and disabled toilet symbols as shown below:



.1 female sex symbol



.2 male sex symbol



.3 unisex symbol



.4 wheelchair symbol



.5 baby change symbol

GLAZING TAPE

Glazing tape is fitted to both sides of the glass before it is sandwiched between the two parts of the Slimport vision frame. It is available in a wide range of thickness to suit slightly different door and glass thicknesses. For non-fire rated doors, use any tape shown on page 96. For timber and steel fire rated doors use FS9009 "ceramic type" tape which ensures the glass does not slump at higher temperatures. This tape is non-carcinogenic.

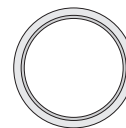
REF	DESCRIPTION
GT-132	0.8mm thick x 9.5mm wide black closed cell polyvinyl chloride foam, PSA backing
GT-116	1.6mm thick x 9.5mm wide black closed cell polyvinyl chloride foam, PSA backing
GT-18	3.2mm thick x 9.5mm wide black closed cell polyvinyl chloride foam, PSA backing
9782375PSA	2mm thick x 10mm wide FS9009 white "ceramic type" glazing tape, PSA backing
9157375PSA	4mm thick x 10mm wide FS9009 white "ceramic type" glazing tape, PSA backing
9236375PSA	6mm thick x 10mm wide FS9009 white "ceramic type" glazing tape, PSA backing



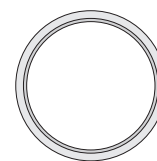
SP250



SP350



SP450



SP550

To calculate the length of glazing tape required for each diameter, refer to the circumference dimensions on page 90 and multiply by two. (Circumference = πd). FS9009 should be subjected to 50% compression.

APERTURE LINERS

On non-fire rated doors it is simply a case of cutting the correct diameter hole in the door and fitting the Slimport with glass and foam glazing tape.

On fire rated steel doors this remains the case, although the foam glazing tape is upgraded to FS9009 "ceramic type" glazing tape.

However on fire rated timber doors, it is necessary to line the aperture with a FS4004 1.6mm thick intumescent liner which in the event of fire begins to expand at 288°C and expands 80 times its volume to ensure that the integrity of the door is maintained. The liner is supplied with PSA pressure sensitive adhesive tape, and is available 44mm wide for 30 minute fire doors and 54mm wide for 60 minute fire doors.

REF	DESCRIPTION
40621750PSA	1.6mm thick x 44mm wide FS4004 intumescent aperture liner, PSA backing (30 minutes).
40622125PSA	1.6mm thick x 54mm wide FS4004 intumescent aperture liner, PSA backing (60 minutes).

To calculate the length of aperture liner required for each diameter, refer to the circumference dimension on page 90. As a general rule, the quantity of aperture liner required will be half the amount of glazing tape.



SLIMPORT CIRCULAR METAL VISION FRAMES

SLIMPORT TWO-PART RING SET TO SUIT XX DOOR THICKNESS - (GLASS AND GLAZING TAPE PRICED SEPARATELY BELOW)

	REF	FINISH	XX=.40	XX=.44	XX=.50	XX=.54	UNIT
SP250 250MM CUT-OUT 200MM VISIBLE LIGHT 223MM GLASS DIAMETER 785MM CIRCUMFERENCE 285MM OUTSIDE FRAME	SP250.XX-GV	Zinc plated mild steel	£120.71	£104.16	£143.08	£143.08	set
	SP250.XX-CP	Chrome pearlite silver ▲	-	£141.71	£167.96	£167.96	set
	SP250.XX-SS	Satin stainless steel	£202.21	£174.49	£239.65	£239.65	set
	SP250.XX-PS*	Polished stainless steel	£242.64*	£242.64	£287.59*	£287.59*	set
SP350 350MM CUT-OUT 300MM VISIBLE LIGHT 323MM GLASS DIAMETER 1100MM CIRCUMFERENCE 385MM OUTSIDE FRAME	SP350.XX-GV	Zinc plated mild steel	£133.13	£114.87	£158.71	£158.71	set
	SP350.XX-CP	Chrome pearlite silver ▲	-	£170.33	£201.89*	£201.89*	set
	SP350.XX-SS	Satin stainless steel	£212.04	£205.20	£251.32	£227.00	set
	SP350.XX-PS*	Polished stainless steel	£254.44*	£254.44	£301.59*	£301.59*	set
SP450 450MM CUT-OUT 400MM VISIBLE LIGHT 423MM GLASS DIAMETER 1415MM CIRCUMFERENCE 485MM OUTSIDE FRAME	SP450.XX-GV	Zinc plated mild steel	£159.97	£138.04	£189.62	£189.62	set
	SP450.XX-CP	Chrome pearlite silver ▲	-	£207.77	£235.08	£235.08	set
	SP450.XX-SS	Satin stainless steel	£253.63	£265.90	£314.29	£291.48	set
	SP450.XX-PS*	Polished stainless steel	£304.35*	£304.35	£344.34*	£344.34*	set
SP550 550MM CUT-OUT 500MM VISIBLE LIGHT 523MM GLASS DIAMETER 1729MM CIRCUMFERENCE 585MM OUTSIDE FRAME	SP550.XX-GV	Zinc plated mild steel	-	£215.41	£232.62	£232.62	set
	SP550.XX-CP	Chrome pearlite silver ▲	-	£268.28	-	-	set
	SP550.XX-SS	Satin stainless steel	-	£347.35	£430.43	£430.43	set
	SP550.XX-PS*	Polished stainless steel	-	£418.62*	-	-	set

.40 two-part ring set to suit 38-42mm (40mm nominal) thick door and 6mm glass (10mm glazing space) see page 91.

.44 two-part ring set to suit 42-46mm (44mm nominal) thick door and 6mm glass (10mm glazing space).

.50 two-part ring set to suit 47-51mm (49mm nominal) thick door and 6mm glass (10mm glazing space) see page 91.

.54 two-part ring set to suit 52-56mm (54mm nominal) thick door and 6mm glass (10mm glazing space).

▲ Note: Chrome pearlite silver finish not suitable for external use. For external, corrosive and coastal applications use stainless steel.

* 550MM SLIMPORTS WILL BE DISCONTINUED WHEN STOCK IS SOLD.

GLASS CIRCLES AND GLAZING TAPES

CLOSED CELL FOAM GLAZING TAPES (USUALLY FITTED TO BOTH SIDES OF GLASS I.E. CIRCUMFERENCE X 2) - AVAILABLE IN COMPLETE ROLLS ONLY					
GT-132	0.8mm thick x 9.5mm wide x 61 metre roll (200ft)	Black closed cell polyvinyl chloride foam		£95.14	roll
ZPGT-1010/DS	1.0mm thick x 10.0mm wide x 50 metre roll	Black closed cell polyvinyl chloride foam		£20.68	roll
GT-116	1.6mm thick x 9.5mm wide x 61 metre roll (200ft)	Black closed cell polyvinyl chloride foam		£99.58	roll
ZPGT-1510/DS	1.5mm thick x 10.0mm wide x 46 metre roll	Black closed cell polyvinyl chloride foam		£17.34	roll
GT-18	3.2mm thick x 9.5mm wide x 30 metre roll (100ft)	Black closed cell polyvinyl chloride foam		£64.19	roll
ZPGT-3010/DS	3.0mm thick x 10.0mm wide x 20 metre roll	Black closed cell polyvinyl chloride foam		£11.17	roll
"CERAMIC TYPE" GLAZING TAPES (FIT TO BOTH SIDES OF GLASS I.E. CIRCUMFERENCE X 2) - AVAILABLE IN COMPLETE ROLLS ONLY					
FS9009 (9782375PSA-WHT)	2.0mm thick x 10.0mm wide x 10 metre long roll	White "ceramic type" glazing tape, PSA backing		£13.01	roll
FS9009 (9157375PSA-WHT)	4.0mm thick x 10.0mm wide x 10 metre long roll	White "ceramic type" glazing tape, PSA backing		£15.86	roll
FS9009 (9236375PSA-WHT)	6.0mm thick x 10.0mm wide x 10 metre long roll	White "ceramic type" glazing tape, PSA backing		£18.35	roll
FS9009 (9782375PSA-BLK)	2.0mm thick x 10.0mm wide x 10 metre long roll	Black "ceramic type" glazing tape, PSA backing		£14.97	roll
FS9009 (9157375PSA-BLK)	4.0mm thick x 10.0mm wide x 10 metre long roll	Black "ceramic type" glazing tape, PSA backing		£18.24	roll
FS9009 (9236375PSA-BLK)	6.0mm thick x 10.0mm wide x 10 metre long roll	Black "ceramic type" glazing tape, PSA backing		£21.11	roll
INTUMESCENT APERTURE LINERS (FOR TIMBER FIRE DOORS - TO FIT INSIDE OF DOOR CUT-OUT I.E. CIRCUMFERENCE) - ORDER IN STOCK LENGTHS ONLY					
FS4004 (40621750PSA/8)	1.6mm thick x 44mm wide x 2438mm long (½ hr)	Intumescent aperture liner, PSA backing		£44.28	length
FS4004 (40622125PSA/8)	1.6mm thick x 54mm wide x 2438mm long (1 hr)	Intumescent aperture liner, PSA backing		£50.28	length
FS4004 (40621750PSA/4)	1.6mm thick x 44mm wide x 1219mm long (½ hr)	Intumescent aperture liner, PSA backing		£22.14	length
FS4004 (40622125PSA/4)	1.6mm thick x 54mm wide x 1219mm long (1 hr)	Intumescent aperture liner, PSA backing		£25.14	length

GLASS (FOR FIRE RATED AND NON-FIRE RATED DOORS)	DIAMETER 223MM		DIAMETER 323MM		DIAMETER 423MM		DIAMETER 523MM	
6.4mm thick laminated clear safety glass (non-fire rated)	LAM223	£38.59	LAM323	£45.45	LAM423	£46.37	LAM523*	£72.07
7.2mm thick clear GWP safety (½ hr fire rated) see page 95	GWP223	£62.50	GWP323	£91.00	GWP423	£108.09	GWP523*	£140.53
8mm thick Pyroguard T E60/8 clear (½ hr & 1hr rated)	TESTING PENDING							
9mm thick laminated clear ceramic (4hr fire rated)	FIR9223	£356.15	FIR9323	£387.02	FIR9423	£510.40	FIR9523*	£780.27
6.4mm thick laminated opaque glass (non-fire rated)	LAM223/F	£83.84	LAM323/F	£93.92	LAM423/F	£104.70	LAM523/F*	£162.76
8mm thick Pyroguard T E60/8 frosted (½ hr & 1hr rated)	TESTING PENDING							

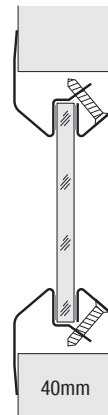
SLIMPORT CIRCULAR METAL VISION FRAMES

Standard Slimports are manufactured to suit 44mm thick and 54mm thick doors, in four diameters and in both mild steel and stainless steel. They all offer a 10mm glazing pocket to accommodate 6-7mm thick glass and glazing tape both sides of the glass. Over the years we have modified tooling and introduced variants that are not covered in detail on pages 88-90, and these are shown below.

TO SUIT 40MM THICK DOORS

Many Continental European doors are 40mm thick, so we have developed products to suit this door thickness. These products are only currently available in 250mm and 350mm and 450mm diameters in zinc plated mild steel and satin stainless steel. These are the same design as our standard self-attaching sets with fixings visible one side only. For sufficiently large enquiries, other finishes and sizes may be available.

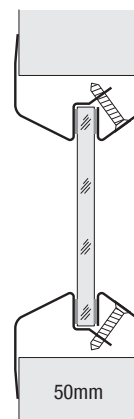
REF	DESCRIPTION (GLASS AND GLAZING TAPE PRICED SEPARATELY)	PRICE	UNIT
SP250.40-SS	To suit 250mm diameter cut-out, with 200mm clear vision, satin stainless steel	£202.71	set
SP350.40-SS	To suit 350mm diameter cut-out, with 300mm clear vision, satin stainless steel	£212.04	set
SP450.40-SS	To suit 450mm diameter cut-out, with 400mm clear vision, satin stainless steel	£253.63	set
SP250.40-GV	To suit 250mm diameter cut-out, with 200mm clear vision, zinc plated mild steel	£120.71	set
SP350.40-GV	To suit 350mm diameter cut-out, with 300mm clear vision, zinc plated mild steel	£133.13	set
SP450.40-GV	To suit 450mm diameter cut-out, with 400mm clear vision, zinc plated mild steel	£159.97	set



TO SUIT 50MM THICK DOORS

Some Scandinavian door manufacturers supply 49-50mm thick doors, and we are able to supply Slimports to suit this door thickness by taking one half of a 44mm set and the other half of a 54mm set and putting them together. This does mean the glass is slightly offset in the door but this is barely noticeable once the Slimport is mounted in the door. Please notify us if you are ordering 50mm Slimports for pairs of doors or multiple units for a single door, and we will ensure that they are matching offset. Prices for the full range of Slimports to suit 50mm thick door and 6mm glass are on page 90, but the most popular sizes are shown below.

REF	DESCRIPTION (GLASS AND GLAZING TAPE PRICED SEPARATELY)	PRICE	UNIT
SP250.50-SS	To suit 250mm diameter cut-out, with 200mm clear vision, satin stainless steel	£239.65	set
SP350.50-SS	To suit 350mm diameter cut-out, with 300mm clear vision, satin stainless steel	£251.32	set
SP450.50-SS	To suit 450mm diameter cut-out, with 400mm clear vision, satin stainless steel	£314.29	set
SP550.50-SS	To suit 550mm diameter cut-out, with 500mm clear vision, satin stainless steel	£430.43	set
SP250.50-GV	To suit 250mm diameter cut-out, with 200mm clear vision, zinc plated mild steel	£143.08	set
SP350.50-GV	To suit 350mm diameter cut-out, with 300mm clear vision, zinc plated mild steel	£158.71	set
SP450.50-GV	To suit 450mm diameter cut-out, with 400mm clear vision, zinc plated mild steel	£189.64	set
SP550.50-GV	To suit 550mm diameter cut-out, with 500mm clear vision, zinc plated mild steel	£232.62	set



TO SUIT DOUBLE GLAZED UNITS

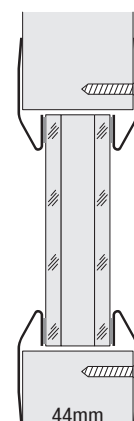
As a general rule, Slimports are designed with a 10mm glazing pocket to suit 6-7mm thick glass and 1.6mm thick glazing tape fitted to both sides of the glass. However where thicker double glazed units are being used we can offer a 450mm diameter set that offers a 24mm glazing pocket on a 44mm thick door. This will suit 18-20mm thick double glazed units with glazing tape. It consists of two identical Part A rings spun to be only 10mm thick (rather than the usual 20mm). Because of this, the fixing method is different to standard Slimports.

The Part A rings are supplied undrilled and one side is usually welded (or screwed) in first, then the double glazed unit fitted. It may be necessary to provide a seat for the double glazed units as the vision rings themselves will provide no support. Finally the second ring is drilled through the flat face and screwed into place.

The clear vision is 400mm, and the usual cut-out for this product is 450mm but it will be less in this instance; a 435mm diameter cut-out is recommended. Please note these units have not been fire tested. Double glazed units should be ordered at 430mm diameter, with the maximum edge distance specified as 13mm.

If you require a fire rated porthole to suit a double glazed unit please refer to Anemostat Lo-FP-12 BB1 and Lo-FP-18 BB1 on page 83.

REF	DESCRIPTION (GLASS AND GLAZING TAPE PRICED SEPARATELY)	PRICE	UNIT
SP435 PART A GV	To suit 435mm diameter cut-out, with 400mm clear vision, zinc plated mild steel	£207.65	set



SLIMPORT ACOUSTIC CIRCULAR VISION FRAMES

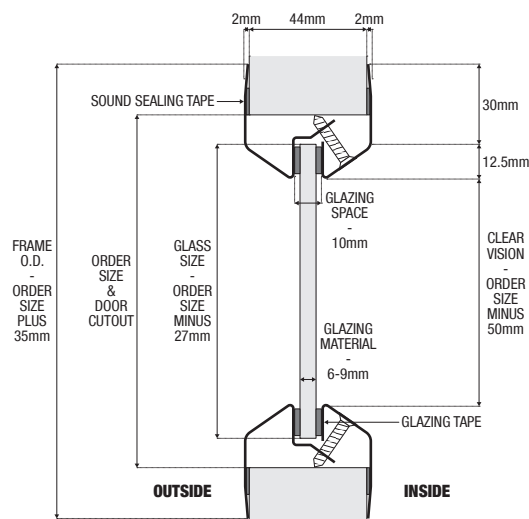
SLIMPORT-STC ACOUSTIC RATED CIRCULAR METAL VISION FRAME ASSEMBLY

The new Slimport-STC is an acoustically tested circular vision frame set. This latest addition to the Slimport range enables us to now offer aesthetically pleasing vision frame solutions for acoustic doorsets.

Slimport-STC has been tested with the most popular glass types we are asked to supply here in the UK; 6.4mm Laminated, Pyrocel, Pyroshield 2 and 9mm Firelite. The vision frame comes with Sound Sealing Tape applied to the underside perimeter of both frame sides, or supplied separately if requested. CAUTION: Sound Sealing Tape should not be exposed to a heat-treating process from post factory applied finishes, such as powder coating.

Tested size SP450. Tested in accordance with BS EN ISO 10140-2:2010 Acoustics - Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation. Testing conducted at Exova, High Wycombe, UK. Copy of test report available upon request.

For square or rectangular acoustic vision frame sets, please see the LOPRO-STC shown on page 80.



SLIMPORT-STC WITH ZPGT SOUND SEALING & GLAZING TAPE

34dB with 6.4mm Laminated Glass

SLIMPORT-STC WITH FS9009 SOUND SEALING & GLAZING TAPE

34dB with 7.2mm Pyroshield 2 Glass

36dB with 9mm Firelite Glass

REF	DESCRIPTION	PRICE	UNIT
SLIMPORT-STC CIRCULAR ACOUSTIC RATED METAL VISION FRAME ASSEMBLY WITH ZPGT SOUND SEALING & GLAZING TAPE (GLASS NOT INCLUDED)			
SP250-STC-GT-GV	To suit 44-46mm thick doors, 250mm diameter cut-out, 200mm diameter clear vision, zinc plated mild steel	£163.78	set
SP250-STC-GT-SS	To suit 44-46mm thick doors, 250mm diameter cut-out, 200mm diameter clear vision, satin stainless steel	£268.79	set
SP350-STC-GT-GV	To suit 44-46mm thick doors, 350mm diameter cut-out, 300mm diameter clear vision, zinc plated mild steel	£179.79	set
SP350-STC-GT-SS	To suit 44-46mm thick doors, 350mm diameter cut-out, 300mm diameter clear vision, satin stainless steel	£281.46	set
SP450-STC-GT-GV	To suit 44-46mm thick doors, 450mm diameter cut-out, 400mm diameter clear vision, zinc plated mild steel	£214.58	set
SP450-STC-GT-SS	To suit 44-46mm thick doors, 450mm diameter cut-out, 400mm diameter clear vision, satin stainless steel	£335.05	set
SLIMPORT-STC CIRCULAR ACOUSTIC RATED METAL VISION FRAME ASSEMBLY WITH FS9009 SOUND SEALING & GLAZING TAPE (GLASS NOT INCLUDED)			
SP250-STC-FS-GV	To suit 44-46mm thick doors, 250mm diameter cut-out, 200mm diameter clear vision, zinc plated mild steel	£171.13	set
SP250-STC-FS-SS	To suit 44-46mm thick doors, 250mm diameter cut-out, 200mm diameter clear vision, satin stainless steel	£276.15	set
SP350-STC-FS-GV	To suit 44-46mm thick doors, 350mm diameter cut-out, 300mm diameter clear vision, zinc plated mild steel	£187.14	set
SP350-STC-FS-SS	To suit 44-46mm thick doors, 350mm diameter cut-out, 300mm diameter clear vision, satin stainless steel	£288.81	set
SP450-STC-FS-GV	To suit 44-46mm thick doors, 450mm diameter cut-out, 400mm diameter clear vision, zinc plated mild steel	£221.74	set
SP450-STC-FS-SS	To suit 44-46mm thick doors, 450mm diameter cut-out, 400mm diameter clear vision, satin stainless steel	£342.40	set

SPECIAL FINISHES

Did you know that apart from our stocked finishes, we are also able to offer the Slimport range in a vast array of architectural finishes? These include bronze, brass and even special coloured translucent lacquers.

Most recently we launched two new black finishes, ZEROblack and LITEblack, to bring the range up to date with the recent increase in demand we have all seen for black architectural ironmongery. ZEROblack is a flat, matt style, finish giving a pure stunning black at all angles. LITEblack is a textured finish which enables light to catch the texture giving a multitude of black tones.

Please call for further details or prices on the finishes mentioned above, or any other special finish requirements you may have.



ZEROblack



LITEblack



Red Translucent Lacquer

SLIMSCREEN PRIVACY VISION SCREENS

SUCCESSFULLY TESTED FOR FD30 & FD60 TIMBER FIRE DOOR APPLICATIONS

Slimscreen is manufactured from three pieces of "banded" glass, with the central piece sliding vertically to either allow or deny observation through the panel.

It is available in two standard sizes of 404x404mm and 254x804mm (width x height), but can be supplied any size to order from 204x304mm up to 604x804mm (width x height). Standard units are not fire rated, but Slimscreen can be supplied to suit FD30 and FD60 timber fire door applications.

Slimscreen is ideal for use in doors and panels where privacy or discreet observation is required in hospitals, operating theatres, doctors' surgeries, banks and building societies, cash rooms and secure areas, meeting and interview rooms, public buildings, police stations, detention centres and magistrates' courts, educational and research establishments etc.

The standard unit is supplied with an anti-ligature knob one side but it is also available with anti-ligature knob both sides. It can also be supplied with lever handles and/or key operation one or both sides. It is recommended that larger sized units be operated by lever handles instead of knobs, because of the weight of the glass being lifted.

STANDARD UNIT SIZES (WIDTH X HEIGHT)

SS1616: 404 x 404mm actual size, 408 x 408mm required cut-out size in door.

SS1032: 254 x 804mm actual size, 258 x 808mm required cut-out size in door.

(Special sizes from 204 x 304mm up to 604 x 804mm available, width x height).

NON-FIRE RATED UNITS

Stock units manufactured from 6.4mm laminated / 4mm toughened / 6.4mm laminated glass to BS 6206 Class C. Alternatively it can be produced to special order with 6mm toughened glass on the outer panes to BS 6206 Class A.

FIRE TESTING

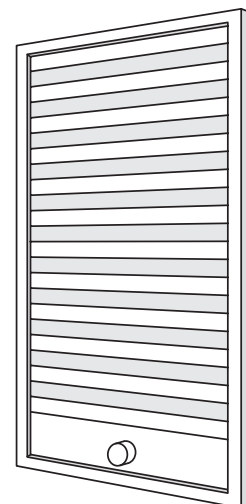
Slimscreen privacy vision panels have been successfully fire tested to BS EN 1634-1:2014 and are suitable for use in previously successfully tested FD30 and FD60 timber doorsets, integrity only. Test report available upon request.

OPERATIONAL METHODS

Available with operating anti-ligature knob one or both sides, also with lever handle or key operation.

SPECIALIST APPLICATIONS

- Toughened or laminated safety glass.
- Medical lead glass for x-ray rooms.
- Georgian wired glass for secure areas.
- Bomb blast film available.
- Anti-bandit glass for personal safety.
- Laserguard film for safety use.
- Incorporating corporate logos and pictograms.
- Blackout version available.



REF	DESCRIPTION	PRICE	UNIT
NFR NON-FIRE RATED SLIMSCREEN UNITS (FRAMING SYSTEM NOT INCLUDED)			
SS1616NFR.1	404 x 404 x 22mm, anti-ligature knob one side, non-fire rated	£557.95	each
SS1032NFR.1*	254 x 804 x 22mm, anti-ligature knob one side, non-fire rated	£647.74	each
FR FIRE RATED SLIMSCREEN UNITS - FD30 (FRAMING SYSTEM NOT INCLUDED)			
SS1616FR30.1*	404 x 404 x 22mm, anti-ligature knob one side, 30 minute fire rated	£686.45	each
SS1032FR30.1*	254 x 804 x 22mm, anti-ligature knob one side, 30 minute fire rated	£803.21	each
FR FIRE RATED SLIMSCREEN UNITS - FD60 (FRAMING SYSTEM NOT INCLUDED)			
SS1616FR60.1*	404 x 404 x 24mm, anti-ligature knob one side, 60 minute fire rated	£ call	-
SS1032FR60.1*	254 x 804 x 24mm, anti-ligature knob one side, 60 minute fire rated	£ call	-

AVAILABLE OPTIONS:

- | | |
|--|----------------------|
| .1 Anti-ligature knob one side - | Included as standard |
| .2 Anti-ligature knob both sides - | Add £68.54 |
| .3 Lever handle one side - | £ No Extra |
| .4 Lever handle both sides - | Add £20.28 |
| .5 Key operated one side - | £ No Extra |
| .6 Key operated one side/anti-ligature knob other side - | Add £44.74 |
| Other combinations available - please enquire. | |

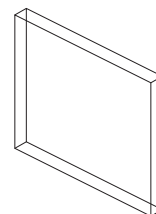
Note: Installation requires a suitable beading or framing system - not supplied with units as standard.

NON-FIRE RATED GLASS

6MM POLYCARBONATE

6mm clear Polycarbonate provides the transparency of glass at less than half the weight, combined with unmatched strength. Used instead of glass in areas at high risk of vandalism like public toilets etc due to its high impact resistance.

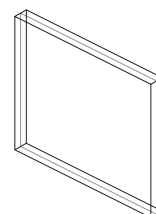
Ref:	POL*.
Price:	£ call.
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.15 m ² .
Fire Ratings:	None.



6.4MM LAMINATED CLEAR

A non-fire rated clear glass impact resistant to BS EN 14449:2005 Class 2B2. Suits most applications and will not shatter on impact, it will break but remain in place so is well used in public areas.

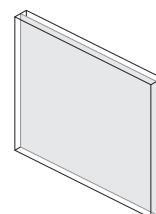
Ref:	LAM*.
Price:	£174.95 m ² .
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.1 m ² .
Fire Ratings:	None.



6.4MM LAMINATED WHITE

As above but the PVB interlayer is white so provides a frosted appearance, good for use in areas of privacy e.g. toilets etc. As the privacy effect is given by the interlayer it cannot be marked by the touch like some frosted glasses. It has the same safety characteristics as the standard clear 6.4mm Laminated.

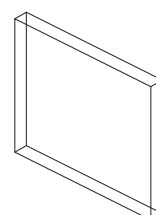
Ref:	LAM/F*.
Price:	£268.64 m ² .
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.15 m ² .
Fire Ratings:	None.
Toilet symbols:	Add £143.96 extra per piece to LAM/F price for reversed out symbols as page 88.



6MM TOUGHENED CLEAR

This toughened glass is 5 times stronger than ordinary glass of the same thickness and meets BS EN 12150-2:2004 / BS EN 12600:2002 Class 1C2. Upon impact it will break and shatter but into small blunt edged fragments which reduce the risk of personal injury.

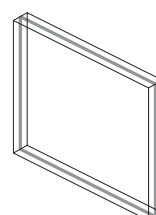
Ref:	TUF*.
Price:	£183.63 m ² .
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.3 m ² .
Fire Ratings:	None.



7.5MM ANTI-BANDIT GLASS

Although still a clear laminated glass, this 7.5mm glass is stronger due to the much thicker 1.5mm thick PVB plastic interlayer used, this affords considerable protection against physical attack. This 7.5mm thick option is regularly used in shop doors and meets Anti-Bandit standard BS EN 356:2000 P4A and safety standard BS EN 14449:2005 Class 1B1 / P4A.

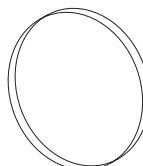
Ref:	ABG*.
Price:	£439.34 m ² .
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.1 m ² .
Fire Ratings:	None.



GLASS CIRCLES TO SUIT SLIMPORTS AND ANEMOSTAT LO-FP PORTHOLES

SLIMPORT GLASS CIRCLES	DIAMETER 223MM		DIAMETER 323MM		DIAMETER 423MM		DIAMETER 523MM	
6.4mm Laminated Clear	LAM223	£38.59	LAM323	£45.45	LAM423	£46.37	LAM523	£72.07
6.4mm Laminated White	LAM223/F	£83.84	LAM323/F	£93.92	LAM423/F	£104.79	LAM523/F*	£162.76
LO-FP GLASS CIRCLES	DIAMETER 278MM				DIAMETER 430MM			
6.4mm Laminated Clear	LAM278	£39.36		LAM430*		£50.35		

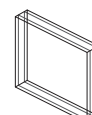
Above diameters are readily held in stock at Zero unless marked with *. Diameter prices for other non-fire rated glasses are available but lead times will apply, please call.



DOUBLE GLAZED UNITS

We are also able to supply double glazed units incorporating most of the non-fire rated glasses above. Please call with specification for availability and prices. When using with LoPro-IS frames or Slimports please remember to specify a maximum edge distance of 13mm.

Additional carriage may be charged on orders for glass.

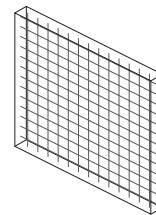


FIRE RATED GLASS

7.2MM PYROSHIELD 2 SAFETY CLEAR

The original fire resistant glass, commonly known as "Georgian Wired", Pyroshield 2 is a monolithic, wired, safety glass providing integrity fire protection. We have had 7.2mm Pyroshield 2 assessed for 30 minutes to BS 476-22:1987. It is also a Class 3B3 safety glass to BS EN 12600:2002.

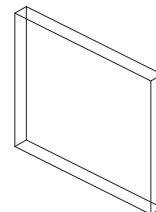
Ref:	GWP*
Price:	£313.75 m².
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.1 m².
Fire Ratings:	Up to 30 minutes fire resistance performance to both BS 476-22:1987 when used with both our LoPro square, rectangular and circular vision frames and our Slimport circular vision frames in both steel and timber doorsets.



8MM PYROGUARD T E60/8 **NEW**

New to our glass range is Pyroguard T E60/8 which has been positively assessed to BS EN 1634-1:2000 for use with our LoPro vision frames in previously tested steel fire resistant doorsets, for 30 and 60 minute durations. It is an 8mm thick clear fire resistant toughened safety glass to BS EN 12150-2. Light weight, and offering excellent light transmission, it also has an impact resistance rating of 1C1 to BS EN 12600.

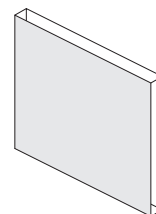
Ref:	PGT*
Price:	£339.99 m².
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.25 m².
Fire Ratings:	Up to 60 minute fire performance (maximum size of 292x1752mm) and up to 30 minute fire performance (maximum size of 701x701mm) to BS EN 1634-1:2000 when used with our LoPro square and rectangular vision frames in previously tested steel fire doorsets. Must be used in conjunction with our FS9009 mineral fibre glazing tape, in the 25mm wide options, to wrap around the edge of the Pyroguard T glass creating a U channel. Detail can be supplied.



8MM PYROGUARD T E60/8 FROSTED **NEW**

As above but sandblasted with a Ritec coating to give a frosted appearance. Good for use in areas of privacy e.g. toilets. With a Ritec coating, this glass is less likely to be marked by the touch than other frosted glass. Pyroguard T E60/8 has been positively assessed to BS EN 1634-1:2000 for use with our LoPro vision frames in previously tested steel fire resistant doorsets, for 30 and 60 minute durations. It is an 8mm thick clear fire resistant toughened safety glass to BS EN 12150-2. Light weight, and offering excellent light transmission, it also has an impact resistance rating of 1C1 to BS EN 12600.

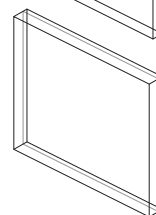
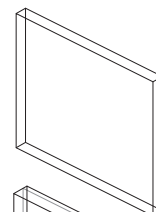
Ref:	PCT/F*
Price:	£603.31 m².
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.25 m².
Fire Ratings:	Up to 60 minute fire performance (maximum size of 292x1752mm) and up to 30 minute fire performance (maximum size of 701x701mm) to BS EN 1634-1:2000 when used with our LoPro square and rectangular vision frames in previously tested steel fire doorsets. Must be used in conjunction with our FS9009 mineral fibre glazing tape, in the 25mm wide options, to wrap around the edge of the Pyroguard T glass creating a U channel. Detail can be supplied.



5MM & 9MM FIRELITE

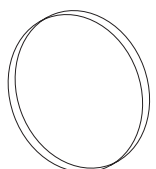
Firelite is a clear glass-ceramic, offering excellent fire resistance properties, designed specifically for use in fire doors and fire screens, where a clear uninsulated fire rated glass is required. We have had assessed both the 5mm thick and 9mm thick laminated version successfully up to 240 minutes fire resistance, and the 9mm is also a safety glass to BS EN 1748-2-1:2004 / BS EN 12600:2002 Class 3B3. For critical locations defined by Approved Document N of the Building regulations i.e. where both width and height exceed 250mm, 9mm Firelite should be used. However, 5mm Firelite may also be used in critical locations provided that the smaller dimension does not exceed 250mm and the total area does not exceed 0.5 m², each measured between glazing beads.

Ref:	FIR5* & FIR9*.
Price:	£1,045.72 m² for 5mm and £1,335.02 m² for 9mm.
Carriage Charges:	Additional carriage may be charged on orders for glass.
Minimum Area:	0.1 m² for 5mm and 0.15 m² for 9mm.
Fire Ratings:	Up to 240 minutes fire resistance performance to both BS 476-22:1987 and BS EN 1634-1:2000 when used with both our LoPro square, rectangular and circular vision frames and our Slimport circular vision frames in steel doorsets. It has also been assessed for up to 60 minutes protection in timber doorsets when using our LoPro square & rectangular vision frames and our Slimport circular vision frames to BS 476-22:1987.



GLASS CIRCLES TO SUIT SLIMPORTS AND ANEMOSTAT LO-FP PORTHOLES

SLIMPORT GLASS CIRCLES	DIAMETER 223MM		DIAMETER 323MM		DIAMETER 423MM		DIAMETER 523MM	
7.2mm Pyroshield Clear (½hr)	GWP223	£62.50	GWP323	£91.00	GWP423	£108.09	GWP523*	£140.53
8mm Pyroguard T E60/8 Clear (½ & 1hr)	TESTING PENDING							
8mm Pyroguard T E60/8 Frosted (½ & 1hr)	TESTING PENDING							
9mm Firelite Clear (4hr)	FIR9223	£356.15	FIR9323	£387.02	FIR9423	£510.40	FIR9523*	£780.27
LO-FP GLASS CIRCLES	DIAMETER 278MM				DIAMETER 430MM			
7.2mm Pyroshield Clear (½hr)	GWP278		£71.82		GWP430		£124.31	
8mm Pyroguard T E60/8 Clear (½ & 1hr)	PGT278*		£170.00		TESTING PENDING			
9mm Firelite Clear (4hr)	FIR9278*		£371.56		FIR9430*		£596.36	

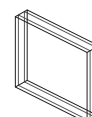


Above diameters are readily held in stock at Zero unless marked with *. Diameter prices for other fire rated glasses are available but lead times will apply, please call.

DOUBLE GLAZED UNITS

We are also able to supply double glazed units incorporating most of the fire rated glasses above. Please call with specification for availability and prices. When using with LoPro-IS frames or Slimports please remember to specify a maximum edge distance of 13mm.

Additional carriage may be charged on orders for glass.



NON-FIRE RATED GLAZING TAPES

When installing our LoPro or Slimport vision frames, glazing tape should be fitted on both sides of the glass or frames. The thickness of the tape will be determined by the thickness of the glass being used and the thickness of the door the frame is being fitted to. When applying the glazing tape, peel it off from the roll and place the exposed adhesive side directly on to the clean surface of the vision frame or glass to be glazed. Do not remove the liner until the glazing tape is in the proper position.

PVC FOAM TAPES WITH SINGLE SIDED SELF-ADHESIVE BACKING

Manufactured in the UK, these polyvinyl chloride foam tapes are supplied with single sided tape, based on an all weather solvent acrylic adhesive system. They are protected with an acrylic liner.

- Colour: Black.
- Sizes: Always 10mm wide. Available in five thicknesses, 1mm, 2mm, 3mm, 5mm and 8mm. Roll length varies depending on tape thickness.
- Tape: Single sided (suffix **/SS**).
- Temperature: Service temperature -20°C to +90°C. Application temperature +10°C to +45°C.
- Compression: Recommended compression 25%. Maximum compression 30%. Do not over compress.



REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
ZPGT-1010/SS	1mm	10mm	50 m	Black	£14.70	roll	30
ZPGT-2010/SS	2mm	10mm	40 m	Black	£14.05	roll	30
ZPGT-3010/SS	3mm	10mm	25 m	Black	£8.19	roll	30
ZPGT-5010/SS NEW	5mm	10mm	15 m	Black	£7.06	roll	30
ZPGT-8010/SS	8mm	10mm	10 m	Black	£9.81	roll	30

PVC FOAM TAPES WITH DOUBLE SIDED SELF-ADHESIVE BACKING

Also manufactured in the UK, these polyvinyl chloride foam tapes are supplied with double sided tape, based on an all weather solvent acrylic adhesive system. They are protected with an acrylic liner.

- Colour: Black.
- Sizes: 10mm or 20mm wide. Available in eight thicknesses, 1mm, 1.5mm, 2 mm, 3mm, 4mm, 5mm, 6mm and 8mm. Roll length varies depending on tape thickness.
- Tape: Double sided (suffix **/DS**).
- Temperature: Service temperature -20°C to +90°C. Application temperature +10°C to +45°C.
- Compression: Recommended compression 25%. Maximum compression 30%. Do not over compress.



REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
ZPGT-1010/DS	1mm	10mm	50 m	Black	£21.20	roll	30
ZPGT-1510/DS	1.5mm	10mm	46 m	Black	£19.75	roll	30
ZPGT-2010/DS	2mm	10mm	25 m	Black	£12.65	roll	30
ZPGT-3010/DS	3mm	10mm	20 m	Black	£11.36	roll	30
ZPGT-3020/DS	3mm	20mm	20 m	Black	£27.63	roll	30
ZPGT-4010/DS	4mm	10mm	20 m	Black	£15.43	roll	30
ZPGT-5010/DS	5mm	10mm	12 m	Black	£10.05	roll	30
ZPGT-6010/DS	6mm	10mm	10 m	Black	£10.37	roll	30
ZPGT-8010/DS	8mm	10mm	10 m	Black	£14.33	roll	30

ANEMOSTAT CLOSED CELL FOAM GLAZING TAPES

Manufactured in the USA, these Anemostat glazing tapes are closed cell polyvinyl chloride foam sealant with pressure sensitive adhesive on two sides, protected with a paper or polyethylene liner.

- Colour: Black.
- Sizes: Always 9.5mm wide. Available in four thicknesses, 1/32" (0.8mm), 1/16" (1.6mm), 1/8" (3.2mm), and 1/4" (6.4mm). Roll length varies depending on tape thickness.
- Tape: Double sided, with blue release paper.
- Temperature: Service temperature -20°C to +90°C. Application temperature +7°C to +45°C.



REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
GT-132*	0.8mm	9.5mm	200 feet (61 m)	Black	£95.14	roll	4
GT-116	1.6mm	9.5mm	200 feet (61 m)	Black	£99.58	roll	4
GT-18	3.2mm	9.5mm	100 feet (30 m)	Black	£64.19	roll	4
GT-14*	6.4mm	9.5mm	50 feet (15 m)	Black	£55.17	roll	4

KISO DRY GLAZING TAPES

KISO 141 DRY GLAZING TAPE

Manufactured in Denmark, the KISO 141 profile is an extruded and self-adhesive EPDM cellular rubber sealing strip. It is very popular with timber window manufacturers and enables glass to be mounted quickly, cleanly and simply. It ensures both water and air tightness between frame, glass and beads.

It can also be used on wooden conservatories between insulating glass and fixed frames, as well as between insulating glass and beads. This product has excellent resistance to ozone and very good ageing properties as well as negligible water absorption. KISO 141 has been used in the Scandinavian fenestration industry for over 30 years. Minimum compression 25%, recommended compression 30%.

- Colour:** Black (/BLK), brown (/BRN) and white (/WHT). Stock colours shown in table.
- Sizes:** Available in different thicknesses and widths. Not all dimensions shown below are available in brown or white. Roll length varies depending on tape thickness.
- Tape:** This product is backed with webbed non-stretch self-adhesive tape on one side. It has excellent adhesion on clean dry surfaces free from grease and dust, and is suitable for factory as well as on-site glazing. Units glazed with KISO 141 dry glazing tape are immediately ready for shipment.
- Temperature:** Temperature resistance -50°C to +90°C.



REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
141.0208/BLK	2mm	8mm	225 m	Black	£60.57	roll	6
141.0309/BLK	3mm	9mm	150 m	Black	£54.15	roll	6
141.0309/WHT	3mm	9mm	150 m	White	£68.16	roll	6
141.0312/BLK*	3mm	12mm	150 m	Black	£58.31	roll	6
141.0315/BLK	3mm	15mm	100 m	Black	£57.48	roll	6
141.0409/BLK	4mm	9mm	125 m	Black	£46.15	roll	6
141.0409/BRN	4mm	9mm	125 m	Brown	£52.93	roll	6
141.0409/WHT	4mm	9mm	125 m	White	£61.06	roll	6
141.0510/BLK	5mm	10mm	100 m	Black	£46.29	roll	6

KISO H/PB HOLLOW PROFILE DRY GLAZING TAPE

KISO H/PB is an extruded EPDM cellular rubber glazing tape with hollow profile. This product works in exactly the same way as the KISO 141 dry glazing tape above, except that the hollow pocket enables the seal to be turned at corners and used as continuous perimeter glazing without the need for cutting. Ensures both water and air tightness between frame, glass and beads.

Supplied with PSA pressure sensitive adhesive tape to back. This product has excellent resistance to ozone and very good ageing properties as well as negligible water absorption. As used in the Scandinavian fenestration industry for over 30 years on wooden windows and conservatories. Minimum compression 25%, recommended compression 30%.

- Colour:** Black only (/BLK).
- Sizes:** Available one size only, 6mm high x 10mm wide.
- Tape:** This product is backed with webbed non-stretch self-adhesive tape on one side. It has excellent adhesion on clean dry surfaces free from grease and dust, and is suitable for factory as well as on-site glazing. Units glazed with KISO H/PB dry glazing tape are immediately ready for shipment.
- Temperature:** Temperature resistance -50°C to +90°C.



REF	HEIGHT	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
H/PB/BLK	6mm	10mm	115m	Black	£74.16	coil	3

SILICONE GLAZING CHANNELS

Designed for use with our LoPro, Lo-FP and Slimport 450mm diameter and above pre-fabricated metal vision frames shown on pages 74-75, 83 and 88-91, this glazing channel is manufactured from silicone. Simple to cut and easy to install, there is no need to bother with self-adhesive tapes again. The integral 'lip' along the top edge of the gasket sits on the vision frame bevel to provide a weather-tight seal against rain seepage on external applications. Aesthetically it also blends in with the frame bevel resulting in a neat and pleasing assembly.

GC10/6 is designed to accommodate 6mm (and 6.4mm) thick glass in LoPro, Lo-FP and Slimport vision frames (except circles with cut-outs less than 450mm) with a 10mm glazing pocket being used on 44mm thick doors, and will prevent the ingress of water. GC16/6 suits 6mm (and 6.4mm) thick glass in standard LoPro and Lo-FP vision frames with a 16mm glazing pocket being used on 50mm thick doors. The standard colour is black, but it may be available in other colours to special order depending on quantity.

- Material:** Silicone.
- Colour:** Standard colour black, other colours available to special order.
- Glass size:** To suit 6mm and 6.4mm glass.
- Fire rating:** For use on non-fire rated doors.
- Temperature:** Suitable for use from -40°C to +80°C.

GC10/6

10mm wide.
6mm glazing pocket.
25 metre coil.
£82.38 coil (Box Qty 1)



GC16/6

16mm wide.
6mm glazing pocket.
25 metre coil.
£220.90 coil (Box Qty 1)



FIRE RATED MINERAL FIBRE GLAZING TAPES

WHITE FS9009 "CERAMIC TYPE" GLAZING TAPE

Available since 1998, FS9009 is manufactured using spinning technology, and is based on a calcium-magnesium-silica chemistry. It gives excellent thermal and physical stability up to its operational limit of 1100°C, and has a melting point in excess of 1330°C.

FS9009 contains no carcinogenic ceramic fibres so is a vast improvement over older style ceramic tapes. FS9009 can be used in a whole range of applications as thermal insulation, particularly as glazing tape in fire rated steel and timber doors. It is lightweight and flexible in use and is generally only available in white, although it can be supplied in black, see below. Please note FS9009 is only suitable for internal use. If being used externally it is suggested that a bead of silicone mastic is applied to seal the FS9009 and prevent ingress of water. All tapes come with a PSA (Pressure Sensitive Adhesive) backing.

It has been included in successful fire tests up to 4 hours on steel doors and 1 hour on timber doors with LoPro vision frames and Slimport circular portholes. WF Report No 190621/A Issue 7 to BS EN 1634-1:2000 and WF Report No 190869 Issue 7 refer. FS9009 should be subject to 50% compression.

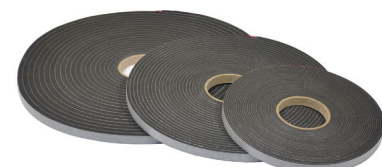


REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
10MM WIDE TAPE							
FS9009 9782375PSA-WHT	2mm	10mm	10 m	White	£13.01	roll	20
FS9009 9157375PSA-WHT	4mm	10mm	10 m	White	£15.86	roll	20
FS9009 9236375PSA-WHT	6mm	10mm	10 m	White	£18.35	roll	20
12MM WIDE TAPE							
FS9009 9782472PSA-WHT*	2mm	12mm	10 m	White	£14.03	roll	20
FS9009 9157472PSA-WHT	4mm	12mm	10 m	White	£17.61	roll	20
FS9009 9236472PSA-WHT*	6mm	12mm	10 m	White	£22.88	roll	20
15MM WIDE TAPE							
FS9009 9782590PSA-WHT*	2mm	15mm	10 m	White	£16.34	roll	20
FS9009 9157590PSA-WHT	4mm	15mm	10 m	White	£20.73	roll	20
FS9009 9236590PSA-WHT*	6mm	15mm	10 m	White	£27.29	roll	20
20MM WIDE TAPE							
FS9009 9782787PSA-WHT*	2mm	20mm	10 m	White	£20.09	roll	20
FS9009 9157787PSA-WHT	4mm	20mm	10 m	White	£26.00	roll	20
FS9009 9236787PSA-WHT*	6mm	20mm	10 m	White	£34.59	roll	20
25MM WIDE TAPE							
FS9009 9782984PSA-WHT	2mm	25mm	10 m	White	£24.52	roll	20
FS9009 9157984PSA-WHT	4mm	25mm	10 m	White	£31.86	roll	20
FS9009 9236984PSA-WHT*	6mm	25mm	10 m	White	£42.75	roll	20
50MM WIDE TAPE							
FS9009 97822000PSA-WHT	2mm	50mm	10 m	White	£49.03	roll	10
FS9009 91572000PSA-WHT*	4mm	50mm	10 m	White	£63.72	roll	10
FS9009 92362000PSA-WHT*	6mm	50mm	10 m	White	£85.51	roll	10

MINIMUM ORDER QUANTITIES APPLY TO * ITEMS - CALL FOR DETAILS.

BLACK FS9009 "CERAMIC TYPE" GLAZING TAPE

We have been supplying white FS9009 glazing tape for many years but we have now introduced the most popular sizes in black in response to customer demand. Other sizes may be available depending on quantities required. It gives excellent thermal and physical stability up to its operational limit of 1100°C, and has a melting point in excess of 1330°C. Apart from the colour, all other details are the same as FS9009 white glazing tape above.



REF	THICKNESS	WIDTH	COIL LENGTH	COLOUR	PRICE	UNIT	BOX QTY
FS9009 9782375PSA-BLK	2mm	10mm	10 m	Black	£14.97	roll	20
FS9009 9157375PSA-BLK	4mm	10mm	10 m	Black	£18.24	roll	20
FS9009 9236375PSA-BLK	6mm	10mm	10 m	Black	£21.11	roll	20

FIRE RATED INTUMESCENT APERTURE LINERS

FS4004 ZERO INTUMESCENT APERTURE LINER FOR VISION FRAMES & FBLs

FS4004 intumescent aperture liner is supplied 44mm wide to suit 30 minute fire rated timber doors and 54mm wide to suit 60 minute fire rated timber doors. It is only fitted to timber fire doors and is not required on steel fire doors. It is 1.6mm thick and fits all round the inside of the aperture into which the Slimport, LoPro vision frame or FBLs louvre is being fitted. However other thicknesses and widths are available to special order. It is graphite based and in the event of fire it begins to expand at 288°C and expands eighty times its own volume forming a very soft and fluffy char.

It is supplied with a PSA self-adhesive tape to one side and is coloured red. The standard lengths are 2438mm (8 feet) and 1219mm (4 feet). It has been included in successful fire tests up to one hour on timber doors with LoPro vision frames and Slimport circular portholes. Copies of test reports WF 190621/A Issue 7 and WF 190869 Issue 6 available upon request. **NO HARDWOOD DOOR LIPPING IS REQUIRED AROUND THE APERTURE.** See page 73 for other sizes.



REF	THICKNESS	WIDTH	LENGTH	FIRE RATING	PRICE	UNIT	BOX QTY
FS4004 40621750PSA/8	1.6mm	44mm	2438mm	30 minutes	£44.28	strip	1
FS4004 40622125PSA/8	1.6mm	54mm	2438mm	60 minutes	£50.28	strip	1
FS4004 40621750PSA/4	1.6mm	44mm	1219mm	30 minutes	£22.14	strip	1
FS4004 40622125PSA/4	1.6mm	54mm	1219mm	60 minutes	£25.14	strip	1

ANEMOSTAT INTUMESCENT APERTURE LINER FOR FUSIBLE LINK LOUVRES

Anemostat intumescent aperture liners are supplied 44mm wide to suit 30 minute fire rated timber doors and 54mm wide to suit 60 minute fire rated timber doors. They are manufactured from a mixture of mono ammonium phosphate (MAP) and graphite intumescent specifically formulated to use as a low expansion aperture liner for use with fire rated fusible link louvres on timber doors. They are not required on steel doors. The strips are 2mm thick overall and have a PSA self-adhesive backing on one side to facilitate installation. They are coloured grey.

The standard length is 2500mm which is sufficient for one FLDL 2424 with a 610mm x 610mm cut-out. This intumescent has been included in a successful 30 minute fire test on a 44mm thick timber door (38 minutes actual) and a 60 minute fire test on a 54mm thick door (65 minutes actual), both to BS EN 1634-1:2008. BM TRADA Report Chilt/RF13260 refers. Copies of test report available upon request. **NO HARDWOOD DOOR LIPPING IS REQUIRED AROUND THE APERTURE.**



REF	THICKNESS	WIDTH	LENGTH	FIRE RATING	PRICE	UNIT	BOX QTY
AL134PSA	2mm	44mm	2500mm	30 minutes	£34.91	strip	4
AL218PSA	2mm	54mm	2500mm	60 minutes	£39.68	strip	4

SETTING BLOCKS FOR FIRE RESISTANT GLAZING

Setting blocks for fire resistant glazing are made of water-repellent inorganic aluminium-silicate. Application temperature up to 1100°C. Available in thicknesses of 2mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm and 20mm. Standard thickness 2mm and 5mm, and standard widths of 6mm, 8mm, 10mm, 20mm and 24mm to suit glass of same thickness. Must be kept dry, and unsuitable for applications of permanent wetness.



REF	LENGTH	WIDTH	THICKNESS	PRICE	UNIT	PACK QTY
2MM THICK BLOCKS						
SB12.8062* [▲]	80mm	6mm	2mm	£159.92	pack	50
SB12.8082*	80mm	8mm	2mm	£167.66	pack	50
SB12.80102	80mm	10mm	2mm	£206.35	pack	50
SB12.80202*	80mm	20mm	2mm	£242.45	pack	50
SB12.80242*	80mm	24mm	2mm	£255.33	pack	50
5MM THICK BLOCKS						
SB12.80105	80mm	10mm	5mm	£206.43	pack	50
SB12.80205*	80mm	20mm	5mm	£250.20	pack	50
SB12.80245*	80mm	24mm	5mm	£309.51	pack	50

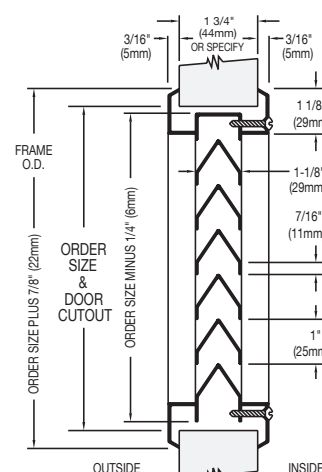
[▲] This item will be discontinued when stock is sold.

ANEMOSTAT METAL LOUVRES

AFDL.44 INVERTED Y LOUVRE - NON VISION

Our most popular louvre, the AFDL.44 is easy to install using screws that fasten the auxiliary frame to the louvre core through the cut-out in the door, leaving the corridor side of the frame free from fixings for added security and an aesthetically pleasing appearance. This eliminates the need to drill holes through the door, saving time and installation labour.

Material:	18GA galvanised steel - frame. 22GA galvanised steel - louvre blades.
Finish:	Galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel for use in coastal areas.
Door thickness:	AFDL.44 suits 44-46mm thick metal or timber doors. See page 102 for AFDL-N to suit 38-44mm thick doors and AFDL-W to suit 45-55mm thick doors.
Blade pitch:	35.8° from vertical.
Louvre mesh:	Insect and bird mesh available, see page 113.
Free area:	50% free area. (36.6% when using insect mesh).
Fixings:	Supplied with #8 BZP Phillips head sheet metal screws as standard. 25mm long to suit AFDL-N & AFDL.44, and 38mm long to suit AFDL-W. Special security fasteners available, see page 114.
Corrosion:	AFDL galvanised mild steel louvres have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



% FREE AREA

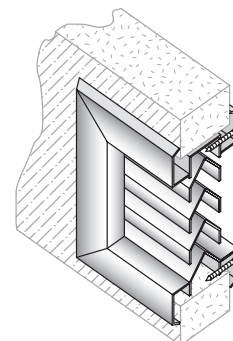
The free area of a louvre is an approximate percentage based on the open area between the blades through which air can pass. The percentage free area has long been used as a convenient means to select louvre type and size but is not an indicator of the louvre's performance (air flow rate).

LOUVRE AIR FLOW

We often get asked to confirm the air flow rates of both the AFDL and FDLS louvres. This can be calculated, but there are a number of variables that are required in order to do so. These are as follows:

1. Volume of air in cubic metres per second. This is usually specified as a minimum requirement value.
2. Desired air speed/pressure, usually in miles per hour/pascals.
3. Louvre type and size.

Using the above criteria we can determine the airflow for a specific size louvre, or the louvre size required to achieve a specific airflow. There is a useful louvre pressure drop calculator on the information/videos tab at www.anemostat.com/doorproducts.



ORDERING FRACTIONAL SIZED LOUVRES

Please note that if fractional inch sized louvres are required, the outside frame dimension is increased to accommodate the odd size. As only complete blades can be used when making louvres, the maximum number of one inch blades is calculated from the cut-out size and any surplus added to the outside frame dimension. If fractional sizes are required and the outside frame dimension is critical, please contact us for exact overall frame sizes prior to ordering. We would always recommend ordering the metric equivalent of exact inch size louvres, although any fractional size is available.

Specify Anemostat AFDL.44 stock sizes - save time and money

 SMALL RECTANGULAR LOUVRE AFDL.44 1008 254x203mm	 MEDIUM RECTANGULAR LOUVRE AFDL.44 1610 406x254mm AFDL.44 1808 457x203mm AFDL.44 1810 457x254mm	 LARGE RECTANGULAR LOUVRE AFDL.44 2412 610x305mm
 SMALL SQUARE LOUVRE AFDL.44 0808 203x203mm AFDL.44 1010 254x254mm AFDL.44 1212 305x305mm	 MEDIUM SQUARE LOUVRE AFDL.44 1414 356x356mm AFDL.44 1616 406x406mm AFDL.44 1818 457x457mm	 LARGE SQUARE LOUVRE AFDL.44 2020 508x508mm AFDL.44 2424 610x610mm AFDL.44 3030 762x762mm
 HALF DOOR LOUVRE AFDL.44 1836 457x914mm AFDL.44 2436 610x914mm	 FULL DOOR LOUVRE AFDL.44 1860 457x1524mm AFDL.44 1866 457x1676mm AFDL.44 2460 610x1524mm AFDL.44 2466 610x1676mm	 FULL DOOR UNEQUAL PAIR LOUVRE AFDL.44 1860 & AFDL.44 1260 457x1524mm & 305x1524mm

All above dimensions are cut-out and order sizes. The sizes shown are an indication of sizes available; please refer to chart on page 101 for full range of sizes. Any size can be manufactured to order including fractional inch sizes.

ANEMOSTAT METAL LOUVRES

AFDL.44 INVERTED Y LOUVRE - NON VISION, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER

REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
SELF-ATTACHING INVERTED Y LOUVRE TO SUIT 44-46MM THICK DOORS				
AFDL.44 0606*	6 x 6	152 x 152	174 x 174	£134.31
AFDL.44 0808	8 x 8	203 x 203	225 x 225	£91.31
AFDL.44 0818*	8 x 18	203 x 457	225 x 479	£183.15
AFDL.44 1008	10 x 8	254 x 203	276 x 225	£94.74
AFDL.44 1010	10 x 10	254 x 254	276 x 276	£99.87
AFDL.44 1018	10 x 18	254 x 457	276 x 479	£157.59
AFDL.44 1060	10 x 60	254 x 1524	276 x 1546	£606.84
AFDL.44 1066*	10 x 66	254 x 1676	276 x 1698	£777.37
AFDL.44 1206*	12 x 6	305 x 152	327 x 174	£130.68
AFDL.44 1208*	12 x 8	305 x 203	327 x 225	£126.17
AFDL.44 1212	12 x 12	305 x 305	327 x 327	£103.86
AFDL.44 1218*	12 x 18	305 x 457	327 x 479	£191.29
AFDL.44 1222	12 x 22	305 x 559	327 x 581	£197.76
AFDL.44 1260	12 x 60	305 x 1524	327 x 1546	£465.33
AFDL.44 1266*	12 x 66	305 x 1676	327 x 1698	£803.83
AFDL.44 1414	14 x 14	356 x 356	378 x 378	£155.77
AFDL.44 1610	16 x 10	406 x 254	428 x 276	£105.09
AFDL.44 1612*	16 x 12	406 x 305	428 x 327	£175.01
AFDL.44 1616	16 x 16	406 x 406	428 x 428	£176.81
AFDL.44 1660*	16 x 60	406 x 1524	428 x 1546	£777.37
AFDL.44 1806*	18 x 6	457 x 152	479 x 174	£168.91
AFDL.44 1808	18 x 8	457 x 203	479 x 225	£153.65
AFDL.44 1810	18 x 10	457 x 254	479 x 276	£109.18
AFDL.44 1812*	18 x 12	457 x 305	479 x 327	£189.26
AFDL.44 1818	18 x 18	457 x 457	479 x 479	£133.92
AFDL.44 1830	18 x 30	457 x 762	479 x 784	£298.98
AFDL.44 1836	18 x 36	457 x 914	479 x 936	£243.06
AFDL.44 1860	18 x 60	457 x 1524	479 x 1546	£471.74
AFDL.44 1866	18 x 66	457 x 1676	479 x 1698	£574.94
AFDL.44 2010*	20 x 10	508 x 254	530 x 276	£191.29
AFDL.44 2012	20 x 12	508 x 305	530 x 327	£190.96
AFDL.44 2016*	20 x 16	508 x 406	530 x 428	£234.03
AFDL.44 2020	20 x 20	508 x 508	530 x 530	£146.24
AFDL.44 2024	20 x 24	508 x 610	530 x 632	£259.16
AFDL.44 2222*	22 x 22	559 x 559	581 x 581	£284.90
AFDL.44 2406*	24 x 6	610 x 152	632 x 174	£191.29
AFDL.44 2410*	24 x 10	610 x 254	632 x 276	£215.71
AFDL.44 2412	24 x 12	610 x 305	632 x 327	£193.65
AFDL.44 2418	24 x 18	610 x 457	632 x 479	£243.26
AFDL.44 2424	24 x 24	610 x 610	632 x 632	£215.31
AFDL.44 2436	24 x 36	610 x 914	632 x 936	£425.18
AFDL.44 2448*	24 x 48	610 x 1219	632 x 1241	£722.43
AFDL.44 2460	24 x 60	610 x 1524	632 x 1546	£736.71
AFDL.44 2466	24 x 66	610 x 1676	632 x 1698	£797.76
AFDL.44 2606*	26 x 6	660 x 152	682 x 174	£209.61
AFDL.44 2626*	26 x 26	660 x 660	682 x 682	£396.83
AFDL.44 2828*	28 x 28	711 x 711	733 x 733	£445.67
AFDL.44 3030	30 x 30	762 x 762	784 x 784	£425.18
AFDL.44 3036*	30 x 36	762 x 914	784 x 936	£606.43
AFDL.44 3060*	30 x 60	762 x 1524	784 x 1546	£952.38
AFDL.44 3232*	32 x 32	813 x 813	835 x 835	£738.71
AFDL.44 3612*	36 x 12	914 x 305	936 x 327	£417.18
AFDL.44 3618*	36 x 18	914 x 457	936 x 479	£510.79
AFDL.44 3636*	36 x 36	914 x 914	936 x 936	£913.72

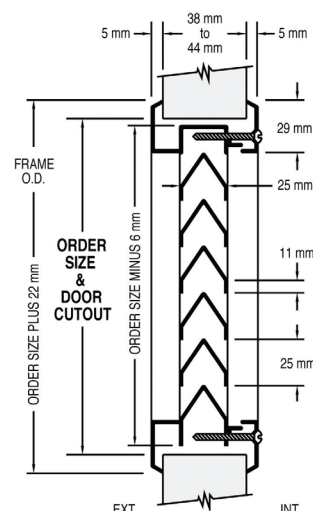
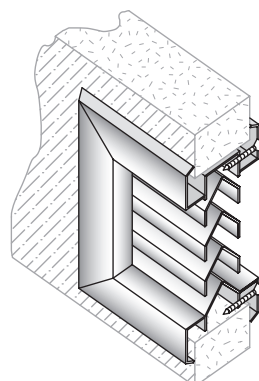
Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ANEMOSTAT METAL LOUVRES

AFDL-N EXPANDABLE 38-44MM INVERTED Y LOUVRES - NON VISION

The AFDL.44 on pages 100-101 is designed only to suit a 44mm thick door. To accommodate different door thicknesses, two new models have been introduced. AFDL-N suits doors 38mm to 44mm and AFDL-W below suits doors 45mm to 55mm thick. All other details remain the same as the AFDL.44. They are easy to install using screws that fasten the auxiliary frame to the louvre core through the cut-out in the door, leaving the corridor side of the frame free from fixings for added security and a cleaner aesthetic appearance. This eliminates the need to drill holes through the door, saving time and installation labour.

- Material: 18GA galvanised steel - frame.
22GA galvanised steel - louvre blades.
- Finish: Galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel for use in coastal areas.
- Door thickness: AFDL-N - 38-44mm. Metal or timber doors.
- Louvre mesh: Mesh cannot be used with expandable frames.
- Free area: 50% free area.
- Fixings: Special security fasteners available, see page 114.



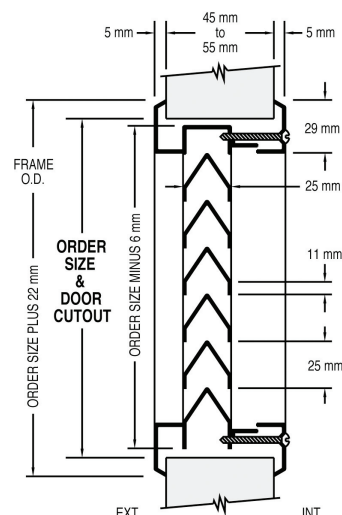
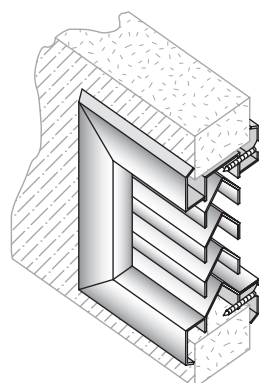
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
SELF-ATTACHING INVERTED Y LOUVRE TO SUIT 38-44MM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
AFDL-N 1208	12 x 8	305 x 203	327 x 225	£125.02
AFDL-N 1212	12 x 12	305 x 305	327 x 327	£104.25
AFDL-N 1812	18 x 12	457 x 305	479 x 327	£190.05
AFDL-N 1818	18 x 18	457 x 457	479 x 479	£147.32
AFDL-N 1860*	18 x 60	457 x 1524	479 x 1546	£924.40
AFDL-N 1866*	18 x 66	457 x 1676	479 x 1698	£1,003.97
AFDL-N 2424	24 x 24	610 x 610	632 x 632	£236.83

Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

AFDL-W EXPANDABLE 45-55MM INVERTED Y LOUVRES - NON VISION

The AFDL.44 on pages 100-101 is designed only to suit a 44mm thick door. To accommodate different door thicknesses, two new models have been introduced. AFDL-N above suits doors 38mm to 44mm and AFDL-W suits doors 45mm to 55mm thick. All other details remain the same as the AFDL.44. They are easy to install using screws that fasten the auxiliary frame to the louvre core through the cut-out in the door, leaving the corridor side of the frame free from fixings for added security and a cleaner aesthetic appearance. This eliminates the need to drill holes through the door, saving time and installation labour.

- Material: 18GA galvanised steel - frame.
22GA galvanised steel - louvre blades.
- Finish: Galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel for use in coastal areas.
- Door thickness: AFDL-W - 45-55mm. Metal or timber doors.
- Thicker Doors: AFDL-W1 now available to special order for doors 55-65mm thick. Same price as AFDL-W.
- Louvre mesh: Mesh cannot be used with expandable frames.
- Free area: 50% free area.
- Fixings: Special security fasteners available, see page 114.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
SELF-ATTACHING INVERTED Y LOUVRE TO SUIT 45-55MM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
AFDL-W 1208*	12 x 8	305 x 203	327 x 225	£125.02
AFDL-W 1212	12 x 12	305 x 305	327 x 327	£104.25
AFDL-W 1810	18 x 10	457 x 254	479 x 276	£120.06
AFDL-W 1812	18 x 12	457 x 305	479 x 327	£190.05
AFDL-W 1818	18 x 18	457 x 457	479 x 479	£147.32
AFDL-W 1836	18 x 36	457 x 914	479 x 936	£267.38
AFDL-W 1860	18 x 60	457 x 1524	479 x 1546	£924.40
AFDL-W 1866*	18 x 66	457 x 1676	479 x 1698	£1,003.97
AFDL-W 2424	24 x 24	610 x 610	632 x 632	£236.83

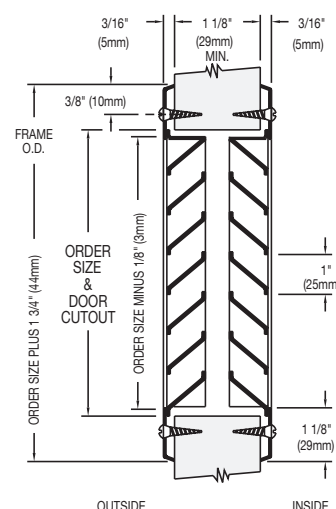
Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ANEMOSTAT METAL LOUVRES

FDLS INVERTED SPLIT Y LOUVRE - NON VISION

Each side of the FDLS louvre fastens directly onto the door through countersunk mounting holes, this enables it to be used on doors ranging from 29mm up to any thickness.

- Material:** 18GA galvanised steel - frame and louvre blades.
- Finish:** Galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel for use in coastal areas.
- Door thickness:** To suit 29mm minimum thick metal or timber doors.
- Aesthetics:** Tight mitred corners, no visible welds, and countersunk mounting holes.
- Louvre mesh:** Insect and bird mesh available, see page 113.
- Free area:** 50% free area. (36.6% when using insect mesh).
- Fixings:** Special security fasteners available, see page 114.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
SCREW FIXING SPLIT Y LOUVRE TO SUIT 29MM MINIMUM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
FDLS 0606	6 x 6	152 x 152	196 x 196	£123.52
FDLS 0808	8 x 8	203 x 203	247 x 247	£127.16
FDLS 0812*	8 x 12	203 x 305	247 x 349	£166.87
FDLS 0816*	8 x 16	203 x 406	247 x 450	£181.13
FDLS 1008*	10 x 8	254 x 203	298 x 247	£164.84
FDLS 1010	10 x 10	254 x 254	298 x 298	£130.20
FDLS 1014*	10 x 14	254 x 356	298 x 400	£181.13
FDLS 1018	10 x 18	254 x 457	298 x 501	£183.14
FDLS 1060	10 x 60	254 x 1524	298 x 1568	£527.69
FDLS 1208	12 x 8	305 x 203	349 x 247	£152.82
FDLS 1210*	12 x 10	305 x 254	349 x 298	£179.08
FDLS 1212	12 x 12	305 x 305	349 x 349	£131.86
FDLS 1216*	12 x 16	305 x 406	349 x 450	£209.61
FDLS 1222	12 x 22	305 x 559	349 x 603	£208.69
FDLS 1236*	12 x 36	305 x 914	349 x 958	£390.72
FDLS 1260	12 x 60	305 x 1524	349 x 1568	£533.03
FDLS 1414	14 x 14	356 x 356	400 x 400	£183.14
FDLS 1418*	14 x 18	356 x 457	400 x 501	£229.96
FDLS 1610	16 x 10	406 x 254	450 x 298	£122.35
FDLS 1612*	16 x 12	406 x 305	450 x 349	£209.61
FDLS 1616	16 x 16	406 x 406	450 x 450	£152.32
FDLS 1618*	16 x 18	406 x 457	450 x 501	£240.13
FDLS 1624	16 x 24	406 x 610	450 x 654	£247.03
FDLS 1630*	16 x 30	406 x 762	450 x 806	£345.95
FDLS 1808	18 x 8	457 x 203	501 x 247	£121.35
FDLS 1810	18 x 10	457 x 254	501 x 298	£151.03
FDLS 1812	18 x 12	457 x 305	501 x 349	£183.14
FDLS 1818	18 x 18	457 x 457	501 x 501	£155.72
FDLS 1824	18 x 24	457 x 610	501 x 654	£268.32
FDLS 1830	18 x 30	457 x 762	501 x 806	£274.20
FDLS 1836	18 x 36	457 x 914	501 x 958	£295.88
FDLS 1860	18 x 60	457 x 1524	501 x 1568	£538.42
FDLS 2012*	20 x 12	508 x 305	552 x 349	£229.96
FDLS 2020	20 x 20	508 x 508	552 x 552	£201.38
FDLS 2024	20 x 24	508 x 610	552 x 654	£289.62
FDLS 2222*	22 x 22	559 x 559	603 x 603	£333.74
FDLS 2408	24 x 8	610 x 203	654 x 247	£200.18
FDLS 2412	24 x 12	610 x 305	654 x 349	£210.83
FDLS 2424	24 x 24	610 x 610	654 x 654	£278.09
FDLS 2466*	24 x 66	610 x 1676	654 x 1720	£986.98
FDLS 3636*	36 x 36	914 x 914	958 x 958	£890.16

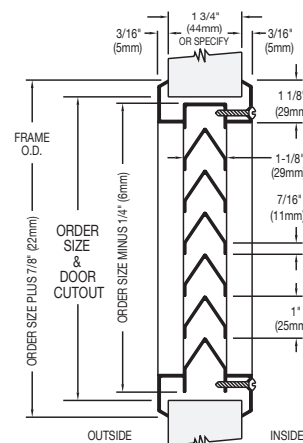
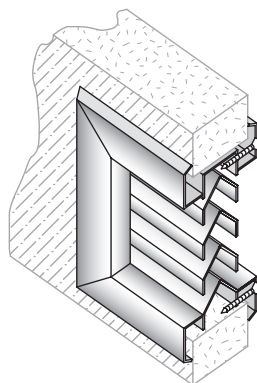
Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ANEMOSTAT 304 / 316 STAINLESS STEEL LOUVRES

STAINLESS STEEL AFDL INVERTED Y LOUVRE - NON VISION

Our most popular louver, the AFDL.44 is easy to install using screws that fasten the auxiliary frame to the louver core through the cut-out in the door, leaving the corridor side of the frame free from fixings for added security and an aesthetically pleasing appearance. This eliminates the need to drill holes through the door, saving time and installation labour.

- Material: Grade 304 or Grade 316 stainless steel for use in coastal areas.
 Finish: #4 satin finish.
 Door thickness: To suit 44-46mm thick metal or timber doors.
 Blade pitch: 35.8° from vertical.
 Louvre mesh: Stainless steel insect and bird mesh available, see page 113.
 Free area: 50% free area. (36.6% when using insect mesh).
 Fixings: Special security fasteners available, see page 114.



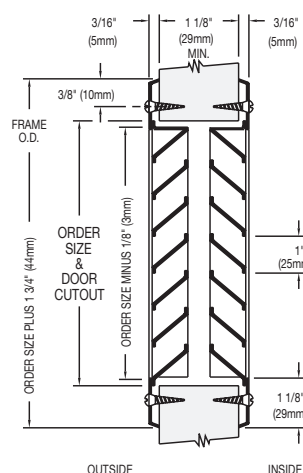
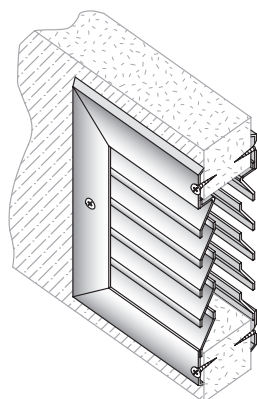
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	GRADE 304 PRICE	GRADE 316 PRICE
SELF-ATTACHING STAINLESS STEEL INVERTED Y LOUVRE TO SUIT 44-46MM THICK DOORS - OTHER SIZES TO SPECIAL ORDER					
AFDL.44-SS 0606	6 x 6	152 x 152	174 x 174	£369.35*	£671.55*
AFDL.44-SS 0808	8 x 8	203 x 203	225 x 225	£397.33*	£722.43*
AFDL.44-SS 1212	12 x 12	305 x 305	327 x 327	£442.10	£803.83*
AFDL.44-SS 1812	18 x 12	457 x 305	479 x 327	£520.45*	£946.28*
AFDL.44-SS 1818	18 x 18	457 x 457	479 x 479	£637.97	£1,159.95*
AFDL.44-SS 1836	18 x 36	457 x 914	479 x 936	£1,141.64*	£2,075.70*
AFDL.44-SS 2424	24 x 24	610 x 610	632 x 632	£901.00*	£1,638.18*

Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.
 AFDL-N, AFDL-W and AFDL-W1 in Grades 304 and 316 available to special order.

STAINLESS STEEL FDLS INVERTED SPLIT Y LOUVRE - NON VISION

Each side of the FDLS louver fastens directly onto the door through countersunk mounting holes, this enables it to be used on doors ranging from 29mm up to any thickness.

- Material: Grade 304 or Grade 316 stainless steel for use in coastal areas.
 Finish: #4 satin finish.
 Door thickness: To suit 29mm minimum thick metal or timber doors.
 Free area: 50% free area. (36.6% when using insect mesh).
 Louvre mesh: Stainless steel insect and bird mesh available, see page 113.
 Fixings: Special security fasteners available, see page 114.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	GRADE 304 PRICE	GRADE 316 PRICE
SCREW FIXING STAINLESS STEEL SPLIT Y LOUVRE TO SUIT 29MM MINIMUM THICK DOORS - OTHER SIZES TO SPECIAL ORDER					
FDLS-SS 0606	6 x 6	152 x 152	196 x 196	£391.74*	£712.25*
FDLS-SS 0808	8 x 8	203 x 203	247 x 247	£408.53*	£742.78*
FDLS-SS 1212	12 x 12	305 x 305	349 x 349	£498.07*	£905.58*
FDLS-SS 1812	18 x 12	457 x 305	501 x 349	£576.41*	£1,048.03*
FDLS-SS 1818	18 x 18	457 x 457	501 x 501	£665.95	£1,210.83*
FDLS-SS 1836	18 x 36	457 x 914	501 x 958	£1,281.54*	£2,330.08*
FDLS-SS 2424	24 x 24	610 x 610	654 x 654	£1,063.29*	£1,933.25*

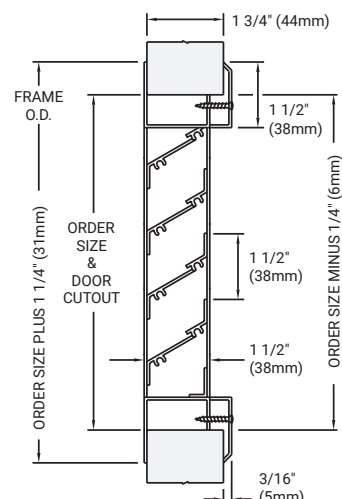
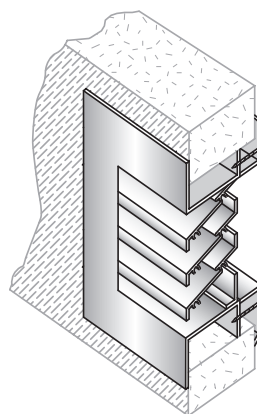
Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ANEMOSTAT METAL LOUVRES

SRDL STORM PROOF EXTRUDED ALUMINIUM LOUVRE

The SRDL is a storm proof louvre manufactured from aluminium extrusions. It is designed for use on the external doors of public, commercial and institutional buildings where protection is required from the weather. It is easy to install using 25mm screws that fasten the auxiliary frame to the louvre core through the cut-out in the door, leaving the external side of the frame free from fixings for added security and a cleaner look. This eliminates the need to drill holes through the door, saving time and installation labour. Since it is made of aluminium there is no risk of rusting. For the same reason, SRDL is not fire rated.

- Material:** Extruded aluminium 1.6mm thick.
- Finish:** Mill silver finish as standard.
Can be used as final finish or painted.
Anodised silver available to special order.
- Door thickness:** To suit 44-46mm thick metal or timber doors.
- Blade pitch:** 38mm vertical gap between pitched blades.
- Free area:** 36% free area.
- Screens:** Available with removable insect screen to special order. Add 10% to prices shown below.
- Specials:** Fractional sizes are available to special order.
- Fixings:** Special security fasteners available, see page 114.



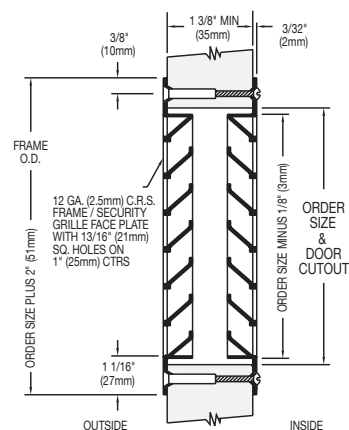
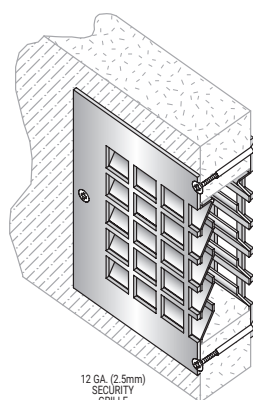
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
SELF-ATTACHING ALUMINIUM STORM PROOF LOUVRE TO SUIT 44-46MM THICK DOORS - OTHER SIZES TO SPECIAL ORDER				
SRDL 1212	12 x 12	305 x 305	336 x 336	£407.53
SRDL 1812*	18 x 12	457 x 305	488 x 336	£498.09
SRDL 1818	18 x 18	457 x 457	488 x 488	£639.61
SRDL 1824*	18 x 24	457 x 610	488 x 641	£752.81
SRDL 2424*	24 x 24	610 x 610	641 x 641	£854.67

Other sizes available from 203 x 203mm up to 914 x 1829mm cut-out in door.

PLSL LOUVRE WITH SECURITY GRILLE BOTH SIDES

The PLSL louvre is a non-vision inverted split louvre installed by drilling 6.4mm holes through the door, around the perimeter of the door cut-out. Frame has countersunk mounting holes for thru-bolts with a blank head on one side for security and flush appearance.

- Material:** 12GA steel frame and security grille face plate (with 20.6mm square holes on 25.4mm centres).
18GA steel louvre blades.
- Finish:** Galvanised steel grey primed as standard; beige, white or bronze baked enamel to order.
- Door thickness:** To suit 35mm minimum thick metal or timber doors.
- Free area:** 40% free area.
- Fixings:** Security thru-bolts available to special order.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
THRU-BOLT FIXING SPLIT Y LOUVRE TO SUIT 35MM MINIMUM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
PLSL 0808*	8 x 8	203 x 203	254 x 254	£278.80
PLSL 1212*	12 x 12	305 x 305	356 x 356	£341.88
PLSL 1818*	18 x 18	457 x 457	508 x 508	£463.98
PLSL 2424*	24 x 24	610 x 610	661 x 661	£736.67

Available any size to special order, also with fly screens.

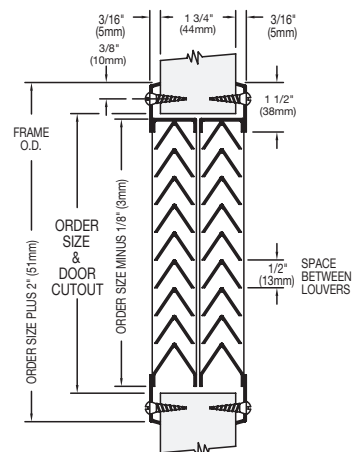
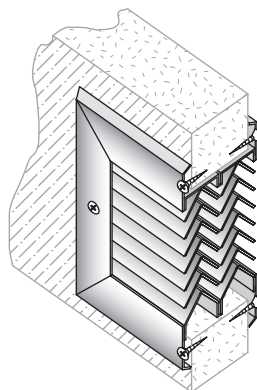
Full catalogue available showing many similar security products.

ANEMOSTAT METAL LOUVRES

DRDL DARKROOM LOUVRE DOUBLE INVERTED V - NON VISION

The DRDL has double inverted louvre blades and is designed for dark room applications to stop light passing through the louvre. Each side of the louvre fastens directly onto the door through countersunk mounting holes.

- Material: 18GA cold rolled steel - frame.
20GA cold rolled steel - louvre blades.
- Finish: Galvanised steel grey primed.
Other finishes available to order.
- Door thickness: To suit 44mm minimum thick metal or timber doors (also available to suit 35mm).
- Free area: 60% free area.
- Fixings: Special security fasteners available, see page 114.



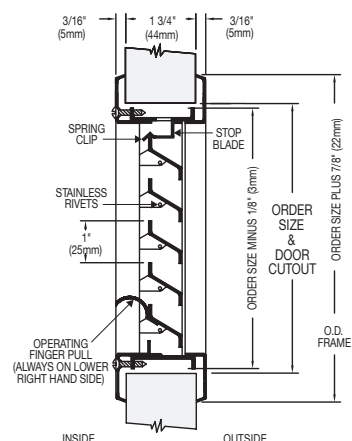
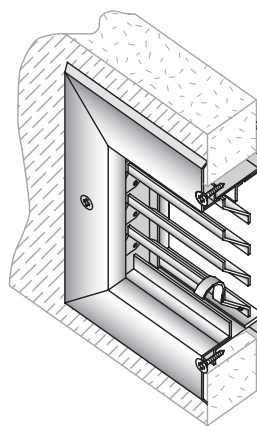
REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
DARKROOM LOUVRE TO SUIT 44MM MINIMUM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
DRDL 0808*	8 x 8	203 x 203	254 x 254	£366.30
DRDL 1010	10 x 10	254 x 254	305 x 305	£342.67
DRDL 1208	12 x 8	305 x 203	356 x 254	£338.04
DRDL 1212	12 x 12	305 x 305	356 x 356	£371.61
DRDL 1818	18 x 18	457 x 457	508 x 508	£623.33
DRDL 2020	20 x 20	508 x 508	559 x 559	£801.50

Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ADL ADJUSTABLE LOUVRE - NON-FIRE RATED

The ADL is the non-fire rated version of the FLDL fire rated fusible link louvre shown on pages 108-109. The blades can be adjusted between the open and closed positions using the operating finger pull (always located on the lower right hand side). It is self-attaching using Phillips head screws that fasten the auxiliary frame to the louvre core, through the cut-out in the door. The corridor side of the frame is free of fasteners for added security. **FRACTIONAL INCH SIZES ARE NOT AVAILABLE.**

- Material: 18GA galvanised steel - frame and louvre blades.
16GA galvanised steel - inner support members.
- Finish: Galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel.
- Door thickness: To suit 44-46mm thick metal or timber doors (35mm, 50mm & 54mm available).
- Free area: 40% free area.
- Louvre mesh: The operating finger pull makes it difficult to use mesh on this louvre.
- Powder Coating: Care should be taken to ensure that the blades operate correctly after powder coating and before the paint dries.
- Fixings: Special security fasteners available, see page 114.



REF	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
ADJUSTABLE LOUVRE TO SUIT 44-46MM THICK DOORS, GALV GREY PRIMED - OTHER SIZES TO SPECIAL ORDER				
ADL 1212	12 x 12	305 x 305	327 x 327	£284.62
ADL 1810	18 x 10	457 x 254	479 x 276	£320.23
ADL 1818	18 x 18	457 x 457	479 x 479	£363.41
ADL 1836*	18 x 36	457 x 914	479 x 936	£630.85
ADL 1860*	18 x 60	457 x 1524	479 x 1546	£834.35
ADL 2020	20 x 20	508 x 508	530 x 530	£396.41
ADL 2424	24 x 24	610 x 610	632 x 632	£442.15

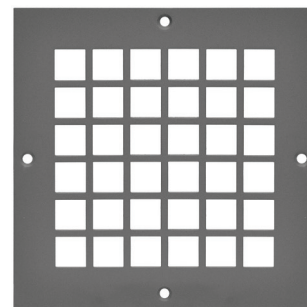
Other sizes available from 152 x 152mm up to 914 x 1829mm cut-out in door.

ANEMOSTAT STEEL SECURITY GRILLES

DSFP LATTICE SECURITY GRILLE FACE PLATE

These wall or door mounting face fixing security grilles have 20.6mm square holes on 25.4mm centres. The outside border is 28mm wide so the ventilation area is outside dimension (and order size) less 56mm. The plate is manufactured from 12GA (3mm) galvanised steel grey primed but other finishes are available to order including Grade 304 and Grade 316 stainless steel. The frame has countersunk mounting holes located 10mm in from the edge of the plate and to suit #8 x 25mm one way vandal proof security screws that can be screwed directly through the face plate into the wall or door. Other security screws are available, see page 114. 66% free area. Other dimensions available from 152x152mm up to 762x914mm. The prices below are for single plates.

REF	SIZE MM W X H	PRICE	UNIT	BOX QTY
DSFP 0808	203 x 203	£106.48	each	1
DSFP 1212*	305 x 305	£124.14	each	1
DSFP 1810	457 x 254	£154.39	each	1
DSFP 1818*	457 x 457	£191.29	each	1
DSFP 2424*	610 x 610	£293.04	each	1

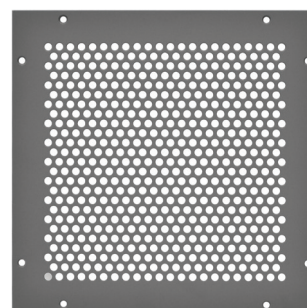


DSFP-PERF PERFORATED SECURITY GRILLE FACE PLATE

Similar to the DSFP above but with 8mm diameter holes on 11mm staggered centres. The outside border is 30mm wide so the ventilation area is outside dimension (and order size) less 60mm. 46% free area. Other dimensions available from 152x152mm up to 762x914mm. The prices below are for single plates.

Note: Design may change during the life of this catalogue. Please call.

REF	SIZE MM W X H	PRICE	UNIT	BOX QTY
DSFP-PERF 0808*	203 x 203	£99.72	each	1
DSFP-PERF 1212	305 x 305	£133.09	each	1
DSFP-PERF 1810*	457 x 254	£142.45	each	1
DSFP-PERF 1818	457 x 457	£207.63	each	1
DSFP-PERF 2424*	610 x 610	£293.04	each	1



JASON GRAVITY LOUVRES

SERIES 12A PRESSURE RELIEF DAMPERS

Gravity louvres are pressure relief dampers manufactured from extruded aluminium. They are designed for surface mounting onto doors and walls, and have adjustable blades which open by air pressure. Generally they are fitted on the outsides of buildings and allow the movement of air one way only, from inside to outside providing a good airflow at appropriate pressure levels. A foam rubber inlay strip gives a precise fit to the wall or door. Standard finish satin anodised aluminium, other finishes and sizes available to special order. The prices below are for single dampers.

REF	SIZE MM W X H	PRICE	UNIT	BOX QTY
12-2626 AA	255 x 255	£88.14	each	1
12-3636 AA	355 x 355	£177.51	each	1
12-4646 AA	455 x 455	£239.66	each	1

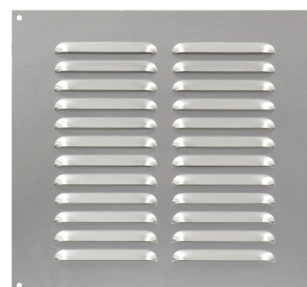


ALUMINIUM HOODED LOUVRES

ALUMINIUM HOODED LOUVRE VENTILATOR

These wall or door mounting hooded louvre ventilators are weatherproof and give very good air circulation. Hooded louvre ventilators are manufactured from aluminium, and are surface mounted with 4mm diameter fixing holes. Material bright aluminium, mill finish.

REF	SIZE MM W X H	PRICE	UNIT	BOX QTY
HL0903 A	225 x 75	£8.57	each	1
HL0906 A	225 x 150	£9.96	each	1
HL0909 A	225 x 225	£12.73	each	1
HL1212 A	300 x 300	£14.63	each	1



ANEMOSTAT FIRE RATED FUSIBLE LINK LOUVRES

The FLDL (previously known as FLDL-UL) is a self-attaching fusible link louvre successfully fire tested for use on steel and timber doors. In normal operation the blades can be opened and shut manually by means of a finger pull (always mounted on lower right hand side). In the event of fire, it has a fusible link made of lead situated above a heat slot in the top of the frame which parts at 165°F (74°C) and allows the stainless steel spring mechanism to snap the louvre blades shut. A simple adjustable louvre with similar mechanism, but without the fusible link (ref ADL) is shown on page 106. It complements the standard AFDL self-attaching louvre already used by many door companies and available ex-stock, as detailed on pages 100-101.

The FLDL is a self-attaching louvre (i.e. no holes need be drilled in the door) with concealed fixings one side, and offers 2 hours integrity on steel doors up to a maximum aperture size of 610x610mm. Copy of Exova Warringtonfire Report available on request. It is available from stock in standard galvanised grey primed finish, suitable for powder coating and in stainless steel Grades 304 and 316 to special order.

The FLDL has also been fire tested at Chiltern Fire and is suitable for 30 minutes integrity on 44mm thick timber fire doors using **AL134PSA intumescent aperture liner** and 60 minutes integrity on 54mm thick timber fire doors using **AL218PSA intumescent aperture liner**. The intumescent aperture liners are self-adhesive and should line all four sides of the door cut-out before the louvre is installed in timber doors.

APPLICATIONS

Fusible link louvres are designed to be used on fire rated doors to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but the FLDL blades will snap shut in the event of fire and maintain the integrity of fire doors and prevent the spread of flames. Examples of applications are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.

DOOR THICKNESS

Previously only available to suit 44mm thick doors, the FLDL is now manufactured in three versions to suit doors from 44mm - 65mm thick. FLDL-W and FLDL-W1 have expandable sleeves.

FLDL - standard to suit doors 44mm thick.

FLDL-W - expandable to suit doors 45-55mm thick.

FLDL-W1 - expandable to suit doors 55-65mm thick.

FASTENERS

It is self-attaching through the cut-out in the door using #8 Phillips head sheet metal screws through countersunk mounting holes to attach the auxiliary frame to the louvre core, thus eliminating the need to drill holes in the door. This method saves time and installation labour and leaves the corridor side of the frame free of fasteners for added security, and a cleaner aesthetic appearance. Given that there are now three versions of this louvre to suit different door thicknesses, three different screw lengths are supplied with them.

#8 x 25mm BZP Phillips head sheet metal screw to suit FLDL (44mm thick doors).

#8 x 38mm BZP Phillips head sheet metal screw to suit FLDL-W (45-55mm thick doors).

#8 x 44mm BZP Phillips head sheet metal screw to suit FLDL-W1 (55-65mm thick doors).

These are supplied with the louvres. Optional Snake eye or Torx screws are available for applications where security is required on the external face (at extra cost). See page 114.

SPRING ADJUSTMENT

The louvre blades can be manually opened and closed to allow or prevent air flow. The blades are tensioned by a "spring clip" at the top of the internal face of the louvre. Slackening off the spring clip makes the louvre easier to operate with the operating lever.

POWDER COATING

Before powder coating this product it will be necessary to remove the fusible link as this may be activated by the temperatures involved in the powder coating process. It can easily be replaced after powder coating. In case of difficulty we are able to forward you an instruction video. Gloves and safety glasses should be worn when removing and replacing the fusible link. The louvre should be powder coated with the blades in the open position and care should be taken to ensure that blades operate correctly immediately after powder coating and before the paint dries. Spare fusible links are available, ref SFL, price in table opposite.

PRODUCT SPECIFICATION

Material:	18GA (1.2mm) galvanised steel - frame and louvre blades. 16GA (1.5mm) galvanised steel - inner support members.
Finishes:	Galvanised steel grey primed - other finishes including stainless steel Grade 304 and Grade 316 available to order.
Louvre mesh:	The operating finger pull makes it difficult to use mesh with this louvre.
Free area:	40% free area.

POSITION IN DOOR

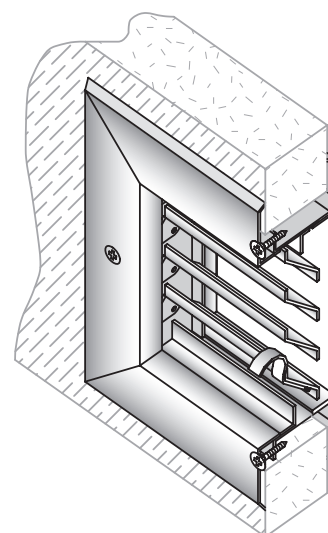
Please note the top of the louvre should be mounted no higher than 1000mm from finished floor level. If an aperture reinforcing channel is fitted then it is imperative this does not interfere with the fusible link mechanism located along the top edge. We recommend at least a 6mm recess in steel doors to ensure free operation in the event of fire.

SUITABLE FOR STEEL FIRE DOORS

Two hours integrity on steel doors, maximum aperture size 610x610mm to BS 476-22:1987. Copy of Assessment Report available upon request. This product is also UL Listed in the USA, File #R7776, details available on request.

SUITABLE FOR TIMBER FIRE DOORS

The FLDL louvre has been included in a successful 30 minute fire test on a 44mm thick timber door (38 minutes actual) and a 60 minute fire test on a 54mm thick door (65 minutes actual), both to BS EN 1634-1:2008. BM TRADA Report Chilt/RF13260 refers. Copies of test report available upon request. No hardwood lipping is required. Intumescent aperture liners must be used on timber fire doors.



FLDL FUSIBLE LINK (TOP VIEW)



OPERATING / FIXING SIDE



APERTURE LINER

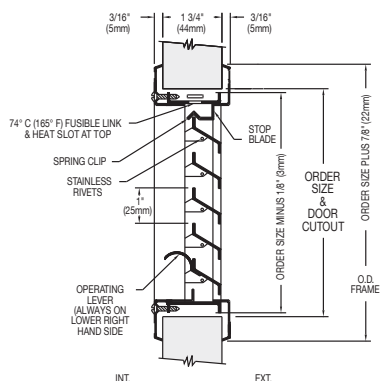
ANEMOSTAT FIRE RATED FUSIBLE LINK LOUVRES

ORDER SIZE & DOOR CUT-OUT

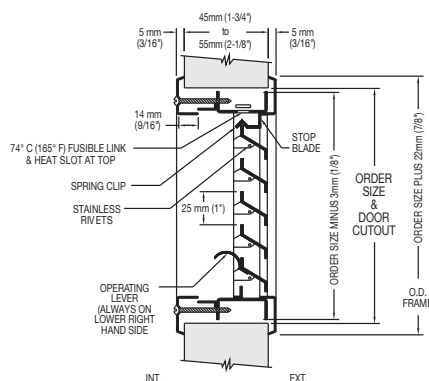
The sizes shown below are the order size and the size of the door cut-out. Other sizes are available to order from minimum size of 305 x 152mm (1206) up to maximum size of 610 x 610mm (2424). All dimensions for louvres are expressed as width x height to avoid confusion. Only complete imperial inch sizes are available i.e. 12"/305mm, 14"/356mm, 16"/406mm, 18"/457mm, 20"/508mm, 22"/559mm, 24"/610mm etc. **FRACTIONAL INCH SIZES ARE NOT AVAILABLE.**

REF	DOOR THICKNESS	SIZE IN INCHES W X H	CUT-OUT MM W X H	OUTSIDE FRAME MM	PRICE
FUSIBLE LINK LOUVRE TO SUIT 44MM THICK DOORS, GALVANISED GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
FLDL 1212	44mm	12 x 12	305 x 305	327 x 327	£306.86
FLDL 1810	44mm	18 x 10	457 x 254	479 x 276	£340.45
FLDL 1818	44mm	18 x 18	457 x 457	479 x 479	£355.98
FLDL 2020	44mm	20 x 20	508 x 508	530 x 530	£429.15
FLDL 2424	44mm	24 x 24	610 x 610	632 x 632	£441.13
EXPANDABLE FUSIBLE LINK LOUVRE TO SUIT 45-55MM THICK DOORS, GALVANISED GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
FLDL-W 1212GO	45-55mm	12 x 12	305 x 305	327 x 327	£337.56
FLDL-W 1810*	45-55mm	18 x 10	457 x 254	479 x 276	£542.94
FLDL-W 1818	45-55mm	18 x 18	457 x 457	479 x 479	£391.58
FLDL-W 2020*	45-55mm	20 x 20	508 x 508	530 x 530	£683.35
FLDL-W 2424	45-55mm	24 x 24	610 x 610	632 x 632	£485.22
EXPANDABLE FUSIBLE LINK LOUVRE TO SUIT 55-65MM THICK DOORS, GALVANISED GREY PRIMED - OTHER SIZES TO SPECIAL ORDER					
FLDL-W1 1212*	55-65mm	12 x 12	305 x 305	327 x 327	£486.77
FLDL-W1 1810*	55-65mm	18 x 10	457 x 254	479 x 276	£542.94
FLDL-W1 1818	55-65mm	18 x 18	457 x 457	479 x 479	£391.58
FLDL-W1 2020*	55-65mm	20 x 20	508 x 508	530 x 530	£683.35
FLDL-W1 2424	55-65mm	24 x 24	610 x 610	632 x 632	£699.94

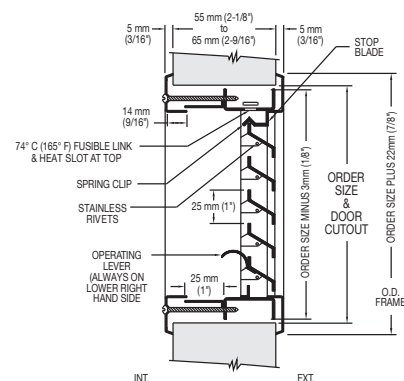
SFL	Spare fusible link	£12.70	each
SFLS	Spare fusible link set (complete)	£42.17	set



FLDL
Standard to suit doors 44mm thick.



FLDL-W
Expandable to suit doors 45-55mm thick.



FLDL-W1
Expandable to suit doors 55-65mm thick.

ANEMOSTAT INTUMESCENT APERTURE LINER FOR FUSIBLE LINK LOUVRES ON TIMBER DOORS

Anemostat intumescent aperture liners are supplied 44mm wide to suit 30 minute fire rated timber doors and 54mm wide to suit 60 minute fire rated timber doors. They are manufactured from a mixture of mono ammonium phosphate (MAP) and graphite intumescent specifically formulated to use as a low expansion aperture liner for use with fire rated fusible link louvres on timber doors. They are not required on steel doors. The strips are 2mm thick overall and have a PSA self-adhesive backing on one side to facilitate installation. They are coloured grey.

The standard length is 2500mm which is sufficient for one FLDL 2424 with a 610mm x 610mm cut-out. This intumescent has been included in a successful 30 minute fire test on a 44mm thick timber door (38 minutes actual) and a 60 minute fire test on a 54mm thick door (65 minutes actual), both to BS EN 1634-1:2008. BM TRADA Report Chilt/RF13260 refers. Copies of test report available upon request. **NO HARDWOOD DOOR LIPPING IS REQUIRED AROUND THE APERTURE.**



REF	THICKNESS	WIDTH	LENGTH	FIRE RATING	PRICE	UNIT	BOX QTY
AL134PSA	2mm	44mm	2500mm	30 minutes	£34.91	strip	4
AL218PSA	2mm	54mm	2500mm	60 minutes	£39.68	strip	4

FBLS FIRE BLOCK LOUVRE SYSTEM

BS EN 1634-1:2014 STEEL DOORS

The FBLS Fire Block Louvre System (complete set) consists of an FB intumescent block grille only 14mm thick which fits within the door leaf in the door aperture, and an FDLS two-part steel louvre set which fixes to both sides of the door and sandwiches the FB intumescent block. In the event of fire the intumescent starts to expand at 160-200°C and expands 40 times its own volume to fill the door void preventing the spread of flames. Over twenty-five standard sizes from stock, with any size available to order from 152 x 152mm minimum cut-out.

APPLICATIONS

Fire Block Louvre System is designed to be used on fire rated doors to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but FBLS will maintain the integrity of fire doors and prevent the spread of flames. Examples of applications are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.

INSTALLATION

It is designed for doors of 44mm minimum thickness, and on steel doors it will be necessary to fit a reinforcing inverted channel at the bottom of the cut-out to support the FB intumescent block. There is no maximum door thickness.

LOUVRES

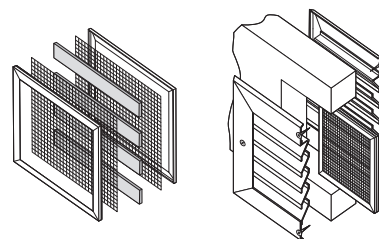
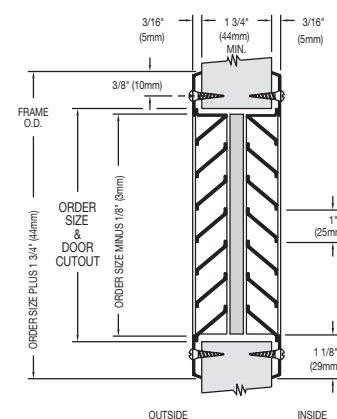
The FDLS is an inverted split Y non-vision louvre, manufactured from 18GA cold rolled steel, galvanised and grey primed. It fastens to both sides of the door and sandwiches the intumescent block within the thickness of the door. Full details appear on page 103. The louvre is also available in Grades 304 and 316 stainless steel to special order.

PRODUCT SPECIFICATION

Material: 18GA Galvanised steel frame and louvre blades.
Door thickness: To suit minimum 44mm thick doors. No maximum door thickness.
Free area: 40% free area.

FIRE - NEW EN TESTING

Following successful fire testing, the FBLS system has been assessed by Warringtonfire for four hours integrity in accordance with BS EN 1634-1:2014. Up to maximum cut-out sizes of 660 x 660mm and 483 x 1676mm (width x height), on previously successfully tested steel based fire resisting doorsets, provided the bottom of the louvre is mounted 500mm above the doorset threshold (Testing pending to allow mounting lower than 500mm. Please call for an update). The previous test must have incorporated an alternative louvre or glazed aperture of the appropriate dimensions (i.e. at least equal to those of the proposed louvre). A copy of assessment report 508671 is available upon request.



FBLS COMPLETE SYSTEM COMPRISING FB FIRE BLOCK AND FDLS LOUVRE - FBLS EN											
		WIDTH									
		203MM	254MM	305MM	356MM	406MM	457MM	483MM	508MM	559MM	610MM
HEIGHT	203MM	£208.92	£229.65	£239.81	£243.81	£261.12	£239.97	£284.20	£284.20	£293.83	£310.34
	254MM	£228.37	£229.12	£245.33	£247.65	£226.08	£277.84	£293.80	£293.80	£306.86	£316.89
	305MM	£238.26	£243.74	£231.59	£253.40	£294.53	£296.19	£316.74	£316.74	£320.69	£330.84
	356MM	£243.71	£249.08	£253.38	£294.50	£238.85	£314.86	£326.42	£326.42	£336.04	£349.49
	406MM	£260.38	£270.61	£206.26	£299.44	£304.39	£326.38	£336.02	£336.02	£364.06	£391.68
	457MM	£264.80	£289.57	£299.40	£316.63	£328.56	£293.17	£363.22	£363.22	£397.42	£420.45
	508MM	£284.00	£293.61	£314.73	£326.28	£335.92	£364.74	£370.28	£360.88	£431.91	£470.29
	559MM	£293.56	£307.04	£323.65	£335.85	£360.86	£397.33	£423.80	£423.80	£470.62	£504.83
	610MM	£307.01	£316.64	£332.00	£349.31	£393.35	£427.96	£480.28	£470.61	£504.80	£440.68
	660MM	£320.42	£326.21	£349.26	£378.10	£431.81	£464.45	£510.90	£510.90	£561.99	£618.19
	711MM	£326.19	£339.64	£362.67	£412.57	£454.83	£487.46	£536.21			
	762MM	£339.59	£362.65	£393.37	£441.35	£483.51	£526.39	£579.03			
	813MM	£353.03	£377.99	£425.97	£466.28	£527.70	£571.86	£629.05			
	863MM	£370.28	£402.91	£447.07	£508.47	£554.33	£612.13	£673.34			
	914MM	£389.46	£424.03	£499.76	£541.10	£592.91	£573.42	£717.42			
	965MM	£408.65	£475.79	£519.95	£579.44	£633.18	£698.42	£768.26			
	1016MM	£450.71	£494.96	£554.47	£610.13	£681.13	£738.70	£812.57			
	1067MM	£462.34	£525.68	£585.15	£650.39	£715.63	£780.88	£858.97			
	1118MM	£493.03	£552.50	£621.58	£686.83	£759.76	£823.07	£905.38			
	1168MM	£517.97	£588.95	£658.01	£732.84	£794.27	£861.44	£947.58			
	1219MM	£554.41	£623.48	£694.46	£765.45	£832.64	£903.63	£993.99			
	1270MM	£585.09	£659.92	£730.89	£799.97	£870.98	£945.81	£1,040.39			
	1321MM	£617.69	£692.52	£765.43	£836.41	£913.18	£984.17	£1,082.59			
	1372MM	£654.14	£723.19	£799.95	£874.79	£953.47	£1,018.68	£1,120.44			
	1422MM	£688.64	£755.80	£836.37	£915.04	£980.30	£1,057.03	£1,162.73			
	1473MM	£717.42	£792.21	£868.97	£941.88	£1,018.65	£1,091.58	£1,200.74			
	1524MM	£759.60	£830.53	£893.31	£976.02	£1,049.34	£1,024.10	£1,269.70			
	1575MM	£797.58	£873.41	£958.04	£1,024.82	£1,101.81	£1,203.39	£1,333.19			
	1626MM	£837.46	£917.08	£1,005.94	£1,076.06	£1,156.90	£1,263.56	£1,399.84			
	1676MM	£879.33	£962.94	£1,056.24	£1,129.87	£1,214.74	£1,326.74	£1,469.84			

For fractional inch cut-out sizes the overall louvre frame size is increased to accommodate the odd size.

1. Stock sizes shown in bold type. Other sizes 3-5 weeks delivery.

2. For fractional sizes use next largest band, and add 15% to list price.

3. Call for prices on unlisted sizes.

Please note we are able to manufacture sizes above 483 x 1676mm and 660 x 660mm but larger sizes would be outside the scope of our fire certification.

INTUMESCENT BLOCK ONLY		
REF	W x H	PRICE
FB-EN 0606	148 x 148	£78.48
FB-EN 0808	199 x 199	£81.76
FB-EN 1010	250 x 250	£98.92
FB-EN 1018	250 x 453	£106.43
FB-EN 1060	250 x 1520	£302.83
FB-EN 1208	301 x 199	£86.99
FB-EN 1212	301 x 301	£99.72
FB-EN 1222	301 x 555	£114.96
FB-EN 1260	301 x 1520	£360.28
FB-EN 1414	352 x 352	£111.35
FB-EN 1610	402 x 250	£103.73
FB-EN 1612	402 x 301	£111.38
FB-EN 1616	402 x 402	£152.07
FB-EN 1624	402 x 606	£146.32
FB-EN 1808	453 x 199	£118.62
FB-EN 1810	453 x 250	£126.81
FB-EN 1812	453 x 301	£113.05
FB-EN 1818	453 x 453	£137.45
FB-EN 1824	453 x 606	£159.63
FB-EN 1830	453 x 758	£252.20
FB-EN 1836	453 x 910	£277.54
FB-EN 1860	453 x 1520	£485.68
FB-EN 2020	504 x 504	£159.49
FB-EN 2024	504 x 606	£180.99
FB-EN 2408	606 x 199	£110.16
FB-EN 2412	606 x 301	£120.01
FB-EN 2424	606 x 606	£162.59

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

FBLS FIRE BLOCK LOUVRE SYSTEM

BS 476-22:1987 TIMBER DOORS

The FBLS Fire Block Louvre System (complete set) consists of an FB intumescent block grille only 14mm thick which fits within the door leaf in the door aperture, and an FDLS two-part steel louvre set which fixes to both sides of the door and sandwiches the FB intumescent block. In the event of fire the intumescent starts to expand at 288°C and expands 80 times its own volume to fill the door void preventing the spread of flames. Over twenty standard sizes from stock, with any size available to order from 152 x 152mm minimum cut-out.

APPLICATIONS

Fire Block Louvre System is designed to be used on fire rated doors to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but FBLS will maintain the integrity of fire doors and prevent the spread of flames. Examples of applications are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.

INSTALLATION

It is designed for doors of 44mm minimum thickness. There is no maximum door thickness.

LOUVRES

The FDLS is an inverted split Y non-vision louvre, manufactured from 18GA cold rolled steel, galvanised and grey primed. It fastens to both sides of the door and sandwiches the intumescent block within the thickness of the door. Full details appear on page 103. The louvre is also available in Grades 304 and 316 stainless steel to special order.

PRODUCT SPECIFICATION

Material:	18GA Galvanised steel frame and louvre blades.
Door thickness:	To suit minimum 44mm thick doors. No maximum door thickness.
Free area:	40% free area.

FIRE

The FBLS system has been assessed by Exova Warringtonfire for use on previously successfully tested timber based fire resisting doorsets, to provide a period of fire resistance of up to 30 or 60 minutes in accordance with BS 476-22:1987 up to maximum cut-out sizes of 610x610mm and 457x762mm (width x height). The previous test must have incorporated an alternative louvre or glazed aperture of the appropriate dimensions (i.e. at least equal to those of the proposed louvre). Copies of WF Report No. 146937 and WF Report No. 356249 available on request. The louvres must be installed so that the top of the louvres are less than 1000mm above the doorset, and the aperture should be lined with Zero FS4004 1.6mm thick intumescent aperture liner, which should be ordered separately. No hardwood lipping is required.

NOTE - This system can be used in steel doors to BS 476-22:1987 if required. Please call for details.

FS4004 INTUMESCENT APERTURE LINERS		PRICE	UNIT
40621750PSA/8	1.6mm thick x 44mm wide x 2438mm long intumescent	£44.28	strip
40622125PSA/8	1.6mm thick x 54mm wide x 2438mm long intumescent	£50.28	strip

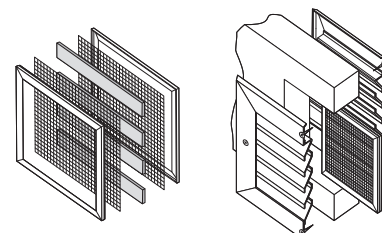
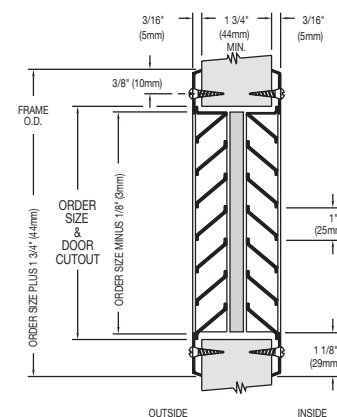
FS4004 aperture liners are supplied with PSA pressure sensitive tape to one side, and should be fitted to all four sides of the aperture.

FBLS COMPLETE SYSTEM COMPRISING FB FIRE BLOCK AND FDLS LOUVRE										
		WIDTH								
		203MM	254MM	305MM	356MM	406MM	457MM	508MM	559MM	610MM
HEIGHT	203MM	£208.92	£229.65	£239.81	£243.81	£261.12	£239.97	£284.20	£293.83	£310.34
	254MM	£228.37	£229.12	£245.33	£247.65	£226.08	£277.84	£293.80	£306.86	£316.89
	305MM	£238.26	£243.74	£231.59	£253.40	£294.53	£296.19	£316.74	£320.69	£330.84
	356MM	£243.71	£249.08	£253.38	£294.50	£238.85	£314.86	£326.42	£336.04	£349.49
	406MM	£260.38	£270.61	£206.26	£299.44	£304.39	£326.38	£336.02	£364.06	£391.68
	457MM	£264.80	£289.57	£299.40	£316.63	£328.56	£293.17	£363.22	£397.42	£420.45
	508MM	£284.00	£293.61	£314.73	£326.28	£335.92	£364.74	£360.88	£431.91	£470.29
	559MM	£293.56	£307.04	£323.65	£335.85	£360.86	£397.33	£423.80	£470.62	£504.83
	610MM	£307.01	£316.64	£332.00	£349.31	£393.35	£427.96	£470.61	£504.80	£440.68
	660MM	£320.42	£326.21	£349.26	£378.10	£431.81	£464.45			
	711MM	£326.19	£339.64	£362.67	£412.57	£454.83	£487.46			
	762MM	£339.59	£362.65	£393.37	£441.35	£483.51	£526.39			

For fractional inch cut-out sizes the overall louvre frame size is increased to accommodate the odd size.

1. Stock sizes shown in bold type. Other sizes 3-5 weeks delivery.
2. For fractional sizes use next largest band, and add 15% to list price.
3. Call for prices on unlisted sizes.

Please note we are able to manufacture sizes above 457 x 762mm and 610 x 610mm but larger sizes would be outside the scope of our fire certification.



INTUMESCENT BLOCK ONLY		
REF	W x H	PRICE
FB 0606	148 x 148	£78.48
FB 0808	199 x 199	£81.76
FB 1010	250 x 250	£98.92
FB 1018	250 x 453	£106.43
FB 1208	301 x 199	£86.99
FB 1212	301 x 301	£99.72
FB 1222	301 x 555	£114.96
FB 1414	352 x 352	£111.35
FB 1610	402 x 250	£103.73
FB 1612	402 x 301	£111.38
FB 1616	402 x 402	£152.07
FB 1624	402 x 606	£146.32
FB 1808	453 x 199	£118.62
FB 1810	453 x 250	£126.81
FB 1812	453 x 301	£113.05
FB 1818	453 x 453	£137.45
FB 1824	453 x 606	£159.63
FB 1830	453 x 758	£252.20
FB 2020	504 x 504	£159.49
FB 2024	504 x 606	£180.99
FB 2408	606 x 199	£110.16
FB 2412	606 x 301	£120.01
FB 2424	606 x 606	£162.59

ACOUSTIC DOOR LOUVRES

SBLS SOUND BLOCK LOUVRE SYSTEM - NON VISION

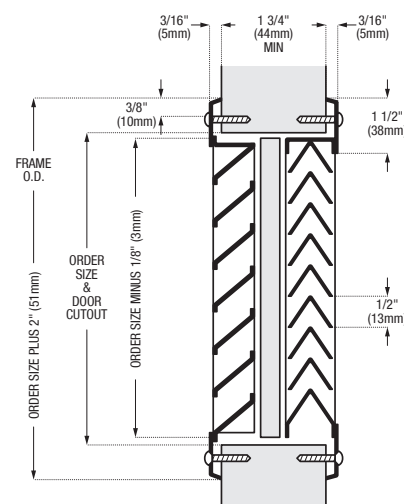
An acoustic door louvre is somewhat of a contradiction in terms; a louvre is designed to allow the passage of air through a door, but at the same time it will permit the passage of sound. The SBLS is designed to reduce the amount of sound passing through the door whilst still allowing fresh air to flow. It has become the accepted solution by many door manufacturers in noise attenuation through doors.

In acoustic tests at The School of Computing, Science and Engineering in the University of Salford's UKAS accredited laboratory, the SBLS has achieved 16 dB Rw. The system incorporates an SB Sound Block which is only 14mm thick and manufactured from sound deadening material. This is sandwiched in the door between a FDLS louvre one side of the door and a DRDL louvre on the other side; two totally different louvre designs. This allows air to flow through the door but reduces the passage of noise.

Critically, the SBLS is designed to work on 44mm thick doors. There are many acoustic louvre panels available for roof top plant rooms, cooling towers, boiler rooms, and air handling systems in all types of buildings which include deflectors and baffles sometimes many feet thick, but the SBLS was specially designed to suit standard 44mm thick doors.

The FDLS and DRDL louvres either side are of all metal construction which results in a long and trouble free life. The SB Sound Block has an aluminium frame and galvanised steel mesh holding STC3003 Sound Sheet material and other sound deadening material in place. It is similar to our FB Fire Block in appearance.

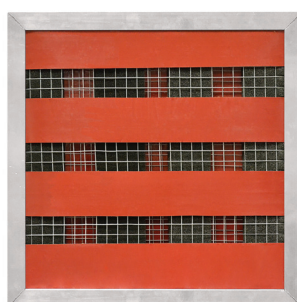
- Size:** The most popular sizes are shown below; door cut-out, outside frame and SB Sound Block dimensions. However other sizes are available to order from 152 x 152mm up to 457 x 1524mm, width x height. The SB Sound Block is always 29mm less than the door cut-out size in both dimensions.
- Material:** FDLS - 18GA galvanised steel frame and louvre blades.
DRDL - 18GA galvanised steel frame and 20GA galvanised steel louvre blades.
SB - aluminium channel, steel clips and galvanised steel mesh.
- Finish:** Louvres are galvanised steel grey primed - other finishes available to order, including Grade 304 and Grade 316 stainless steel. Call for prices.
- Acoustic rating:** 16 dB Rw. Copy of Salford University Test Report No: 132-1 available on request. Test Ref AC09/173/13. Tested to the International Standard Method For Measurement of Airborne Sound Insulation Of Building Elements BS EN ISO 140-3:1995.
- Installation:** Please note this product should be fitted in the factory with the door in the horizontal position. This ensures the correct position of the SB Sound Block.
- Door thickness:** To suit 44mm minimum thickness upwards. There is no maximum door thickness, although it will be necessary to provide some lateral support for the 14mm thick SB Sound Block on doors thicker than 44mm.
- Free area:** 30% free area.
- Fixings:** Supplied with No 8 Phillips head screws. Special security fasteners available, see page 114.



REF	ACOUSTIC RATING dB Rw	CUT-OUT MM W X H	OUTSIDE FRAME MM W X H (CUT-OUT PLUS 51MM)	SB SIZE MM W X H (CUT-OUT LESS 29MM)	SBLS COMPLETE SYSTEM PRICE (SET)	SB ONLY (SBO) PRICE (EACH)
SBLS 0808*	16 dB Rw	203 x 203	254 x 254	174 x 174	£474.38	£130.81
SBLS 1010	16 dB Rw	254 x 254	305 x 305	225 x 225	£526.69	£158.28
SBLS 1208	16 dB Rw	305 x 203	356 x 254	276 x 174	£539.79	£159.40
SBLS 1212	16 dB Rw	305 x 305	356 x 356	276 x 276	£532.14	£159.58
SBLS 1616*	16 dB Rw	406 x 406	457 x 457	377 x 377	£713.97	£243.30
SBLS 1810*	16 dB Rw	457 x 254	508 x 305	428 x 225	£643.37	£202.87
SBLS 1818	16 dB Rw	457 x 457	508 x 508	428 x 428	£681.42	£219.92
SBLS 1836*	16 dB Rw	457 x 914	508 x 965	428 x 885	£1,338.78	£444.05
SBLS 2020	16 dB Rw	508 x 508	559 x 559	479 x 479	£832.05	£255.20
SBLS 2424*	16 dB Rw	610 x 610	661 x 661	581 x 581	£993.84	£260.16



FDLS LOUVRE



SB SOUND BLOCK



DRDL LOUVRE

INSECT MESH FOR LOUVRES

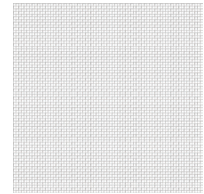
We offer aluminium woven wire and stainless steel woven wire insect mesh to complement our range of AFDL and FDLS louvres. These meshes are simply cut to size and fixed to the inside of the louvre to prevent the passage of insects while maintaining an air flow into the room. **Please note mesh should be ordered 10mm larger than door cut-out size, and trimmed down on site.** A minimum area charge of 0.2 m² for each piece applies to pricing to cover cutting, alternatively complete rolls are available. Please note mesh cannot be used with AFDL-N and AFDL-W expandable louvres. The two most common types of insect mesh we offer are as follows:

ALUMINIUM WOVEN WIRE INSECT MESH

Fine aluminium woven wire mesh is light and easy to handle, the screening surface is smooth and does not have any sharp edges, burrs or acute angles. It has a high temperature tolerance and is usable under high pressure. However, this mesh does give a greater reduction in airflow than our other meshes, because of its fine nature there is more "metal" in the aperture.

REF	DESCRIPTION	PRICE	UNIT
MESH01	Aluminium woven wire cloth insect mesh, 18 x 16 gauge, 0.280mm diameter wire	£38.00	metre ²
MESH01	Roll of aluminium woven wire cloth insect mesh, 30.48 metres x 1219mm wide	£403.70	roll

Minimum area 0.2 m²

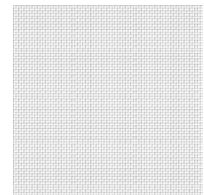


STAINLESS STEEL WOVEN WIRE INSECT MESH

Insect mesh similar to MESH01 above but produced from Grade 304 stainless steel instead of aluminium. For use with stainless steel louvres. 73% open area.

REF	DESCRIPTION	PRICE	UNIT
MESH04	Stainless steel woven wire cloth insect mesh, 16 x 16 gauge, 0.355mm diameter wire	£78.61	metre ²
MESH04	Roll of stainless steel woven wire cloth insect mesh roll, 10 metres x 1219mm wide	£383.64	roll

Minimum area 0.2 m²



BIRD & VERMIN MESH FOR LOUVRES

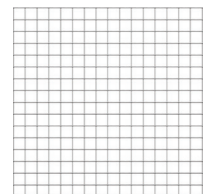
We offer galvanised steel and stainless steel bird and vermin mesh to complement our range of AFDL and FDLS louvres. These meshes are simply cut to size and fixed to the inside of the louvre to prevent the passage of birds while maintaining an air flow into the room. **Please note mesh should be ordered 10mm larger than door cut-out size, and trimmed down on site.** A minimum area charge of 0.2 m² for each piece applies to pricing to cover cutting, alternatively complete rolls are available. Please note mesh cannot be used with AFDL-N and AFDL-W expandable louvres. The four most common types of bird and vermin mesh we offer are as follows:

GALVANISED STEEL BIRD & VERMIN MESH, 6MM X 6MM

This is a heavy duty welded galvanised steel mesh. Still offering a smooth screening surface, this mesh will allow a greater airflow into the room than MESH01 but will not keep out smaller pests / insects. Also suitable for high temperature use and use under high pressure. This mesh uses a 22 gauge wire so is very robust.

REF	DESCRIPTION	PRICE	UNIT
MESH02	Welded galvanised steel bird mesh, 6 x 6mm apertures, 22 gauge wire	£40.66	metre ²
MESH02	Roll of welded galvanised steel bird mesh, 30 metres x 914mm wide	£313.78	roll

Minimum area 0.2 m²

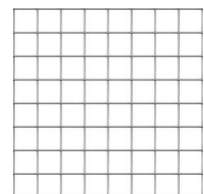


GALVANISED STEEL BIRD & VERMIN MESH, 13MM X 13MM

This is exactly the same specification as MESH02 but with larger apertures / holes. This gives an even greater airflow into the room while still preventing birds etc to enter the room through the louvre.

REF	DESCRIPTION	PRICE	UNIT
MESH03	Welded galvanised steel bird mesh, 13 x 13mm apertures, 19 gauge wire	£40.66	metre ²
MESH03	Roll of welded galvanised steel bird mesh, 20 metres x 1000mm wide	£228.86	roll

Minimum area 0.2 m²

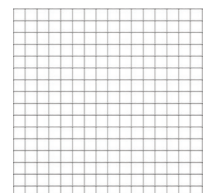


STAINLESS STEEL BIRD & VERMIN MESH, 6MM X 6MM

This bird mesh is made from 22 gauge Grade 304 stainless steel and has 6mm x 6mm apertures. For use with stainless steel louvres or in corrosive environments. It will not keep out smaller pests and insects.

REF	DESCRIPTION	PRICE	UNIT
MESH05	Welded stainless steel bird mesh, 6 x 6mm apertures, 22 gauge wire	£87.63	metre ²
MESH05	Roll of welded stainless steel bird mesh, 30 metres x 914mm wide	£961.43	roll

Minimum area 0.2 m²

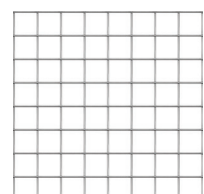


STAINLESS STEEL BIRD & VERMIN MESH, 13MM X 13MM

This is exactly the same specification as MESH05 above but with larger aperture / holes. This gives an even greater airflow into the room while still preventing birds etc to enter the room through the louvre.

REF	DESCRIPTION	PRICE	UNIT
MESH06	Welded stainless steel bird mesh, 13 x 13mm apertures, 19 gauge wire	£87.63	metre ²
MESH06	Roll of welded stainless steel bird mesh, 30 metres x 914mm wide	£961.43	roll

Minimum area 0.2 m²



FASTENERS FOR VISIONS & LOUVRES



LP01
Spare BZP screws for
LoPro & Lo-FP AA1 44/6 visions.
Raised countersunk.
#8 x 44mm sheet metal screw.
Phillips head, BZP.
£35.94 per 100 (Box Qty 100)



LP02
Spare BZP screws for
LoPro DD1 50/6 visions.
Raised countersunk.
#8 x 50mm sheet metal screw.
Phillips head, BZP.
£35.94 per 100 (Box Qty 100)



DL01
Spare BZP screws for
AFDL, ADL & FLDL louvres.
Raised countersunk.
#8 x 25mm sheet metal screw.
Phillips head, BZP.
£35.94 per 100 (Box Qty 100)



DL02
Spare BZP screws for
FDLS & DRDL louvres.
Raised countersunk.
#8 x 19mm sheet metal screw.
Phillips head, BZP.
£35.94 per 100 (Box Qty 100)



RT01 (173657)
Restorix Torx Pin security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 19mm.
£14.10 per 100 (Box Qty 100)



RT02 (173662)
Restorix Torx Pin security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 25mm.
£15.42 per 100 (Box Qty 100)



RT03 (173692)
Restorix Torx Pin security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 38mm.
£16.74 per 100 (Box Qty 100)



RT04 (173702)
Restorix Torx Pin security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 50mm.
£25.12 per 100 (Box Qty 100)



SE01 (171430)
Snake Eye security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 19mm.
£60.81 per 100 (Box Qty 100)



SE02 (171450)
Snake Eye security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 25mm.
£60.81 per 100 (Box Qty 100)



SE03 (171490)
Snake Eye security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 38mm.
£70.06 per 100 (Box Qty 100)



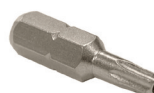
SE04 (171520)
Snake Eye security screw.
Self-tapping thread, pan head.
A2 stainless steel.
4.2 x 45mm.
£79.09 per 100 (Box Qty 100)



SE05 (171530)
Snake Eye security screw.
Self-tapping thread, countersunk head.
A2 stainless steel.
4.2 x 50mm.
£82.18 per 100 (Box Qty 100)



CH01 (175265)
Clutch Head one way security screw.
Self-tapping thread, oval clutch head.
A2 stainless steel.
4.2 x 38mm.
£55.95 per 100 (Box Qty 100)



RT10 (199810)
Restorix Torx Pin driver bit.
T-20H.
£5.51 each (Box Qty 1)



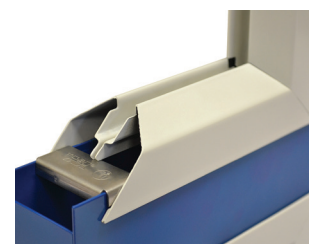
SE10 (199532)
Snake Eye driver bit.
SP-8.
£5.51 each (Box Qty 1)

A2 = Grade 304
A4 = Grade 316

ANEMOSTAT HM-CLIPS

Hollow Metal door clips can be used in hollow metal doors, and replace the need for reinforcing channel in all Anemostat vision frames and louvres when fitted to 44mm thick doors. They are manufactured from 20GA cold rolled steel. The clip is inserted between the door skins with the barbed sides outside the door skin, and then snapped into place, fitting flush with the door cut-out. The number of clips required will depend on the size of the aperture. Please note that when using HM-Clips with LoPro vision frames extra caution should be taken to ensure door cut-out is exact. Do not oversize the cut-out.

Material: 20GA cold rolled steel.
Purpose: Holds door skins apart without need for reinforcing channel.
Door thickness: For 44mm thick door only.
HM-CLIP £0.56 each (Box Qty 50)



GRADE 13 STAINLESS STEEL HINGES

A range of high quality CE marked Grade 13 stainless steel hinges. The slim knuckle hinges have two ball bearings for long life and are circular template drilled ensuring holes are always in the same position. The pin itself is also stainless steel to offer improved wear and resistance.

All hinges are marked with CE 1121, BS EN 1935:2002 Grade 13. The full eight digit classification is as follows; 476113013. The main factors across the range being, 120kg carrying capacity, 200,000 cycles and suitable for severe duty applications. Please see DoP available on our website. All sizes (apart from the Grade 304 stainless steel 102x76mm options) carry the **ZEROPLUS** logo, however, these branded options will be discontinued when stock is sold. The unbranded hinges are also UKCA marked.

The full range is available in Grade 304 stainless steel as standard. We also offer the 102x76x3mm size in a lower grade of stainless steel; Grade 202, this is not recommended for external use but is used internally without a problem. Please refer to page 72 for intumescent hinge pads.

PLAIN HINGES

UNBRANDED HINGES

ZH0403BB.SS-304

Unbranded plain hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 76mm wide.
3mm thick material.
£9.19 each



BRANDED HINGES

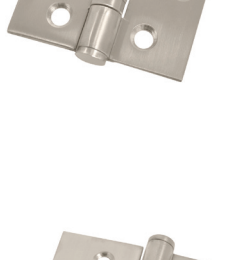
ZH0435BB.SS ▲

Branded plain hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 89mm wide.
3mm thick material.
£7.31 each



ZH0404BB.SS ▲

Branded plain hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 102mm wide.
3mm thick material.
£9.94 each



ZH4504BB.SS ▲

Branded plain hinge.
Grade 304 stainless steel.
Square corners.
114mm high, 102mm wide.
3.4mm thick material.
£14.61 each



ZH4545BB.SS ▲

Branded plain hinge.
Grade 304 stainless steel.
Square corners.
114mm high, 114mm wide.
3.4mm thick material.
£18.07 each



ZH0403BB.SS-202 ▲

Branded plain hinge.
Grade 202 stainless steel.
(NOT FOR EXTERNAL USE)
Square corners.
102mm high, 76mm wide.
3mm thick material.
£4.63 each

▲ These items will be discontinued when stock is sold, please call.

All of the above hinges are supplied as standard with screws. At Zero we understand the need for correct fixings and give our customers the choice of two options; European Metric thread Undercut machine screws or wood screws. Machine screws are for metal door applications and the wood screws are for timber door applications. Machine screws have a special "Undercut" countersink that unlike a traditional triangular countersink is flattened off so it will not hit the steel and "bottom out" preventing the hinges from being fitted correctly. Please specify which fixing option you require when ordering. All hinges are priced singly but are supplied in inners of 3 pieces.

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

SECURITY STUD HINGES

UNBRANDED HINGES

ZH0403BB.STUD.SS

Unbranded security stud hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 76mm wide.
3mm thick material.
£9.67 each



BRANDED HINGES

ZH0435BB.STUD.SS ▲

Branded security stud hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 89mm wide.
3mm thick material.
£9.30 each



ZH0404BB.STUD.SS ▲

Branded security stud hinge.
Grade 304 stainless steel.
Square corners.
102mm high, 102mm wide.
3mm thick material.
£9.53 each



ZH4504BB.STUD.SS ▲

Branded security stud hinge.
Grade 304 stainless steel.
Square corners.
114mm high, 102mm wide.
3.4mm thick material.
£15.00 each



ZH4545BB.STUD.SS ▲

Branded security stud hinge.
Grade 304 stainless steel.
Square corners.
114mm high, 114mm wide.
3.4mm thick material.
£18.84 each



M6.TRUNC

Truncated undercut machine screw.
M6 x 15mm
A2 REC CSK stainless steel.
Pozi head.
£28.93 per 100 (if ordered separately)



3-D ADJUSTABLE HEAVY DUTY HINGES

These are a range of heavy duty 3-D adjustable hinges to suit un-rebated steel doors. The fixing lugs on the hinge portion slide into the frame box, this then offers 3mm of adjustment in three dimensions; side to side, up or down and compression. All by simply using an allen key and turning the relevant screw. This unique mounting method ensures easy installation even in the trickiest environments. Another advantage of these hinges is that manufacture of the frame and door leaf can be carried out in different locations and then easily married up on site. They have maintenance free, axial-radial, slide bearing technology for smooth operation and an internal torsion-proof pin. Grade 304 stainless steel only. Not available Grade 316. All hinges are CE marked in accordance with BS EN 1935:2002. Please see DoP available on our website.

PROJECT HINGES AND FRAME BOX TO SUIT



VX7729/160

200kg Hinge, 160mm high.
Grade 304 Satin Stainless Steel.
3.5mm thick material, 22.5mm knuckle diameter.
CE Grade 14.
£55.25 each (Box Qty 2)



VX7729/100

100kg Hinge, 95mm high.
Grade 304 Satin Stainless Steel.
3.5mm thick material, 20mm knuckle diameter.
CE Grade 12.
£51.06 each (Box Qty 10)



VX7611-3D

3-D Adjustable frame box.
To suit both the 160mm & 95mm hinge.
Welding points for steel frames.
Zinc plated.
£17.77 each (Box Qty 10)

PRICES DO NOT INCLUDE FIXING SCREWS.

ALL WEIGHTS SHOWN ARE BASED ON TWO HINGES PER LEAF, DOOR SIZE 2000X1000X40MM.

3-D ADJUSTABLE CONCEALED HINGES

Completely concealed hinges mean the knuckle of the traditional hinge is no longer visible so the hinge is not seen at all when the door is in the closed position. The TE540 3D suits unrebated heavy-duty timber doors with timber, steel or aluminium casing frames. It is UL-certified, with comfortable 3-D adjustment, a Grade 13 load capacity of 120kg and an opening angle of up to 180°. The hinge weight capacity is based on fitting two hinges on a 2000mm x 1000mm door. The standard hinge is not fire rated but for FD30 fire doors, use three TE540 FR 3D hinges available at extra cost. The hinge is 200mm high x 32mm wide and suits left hand or right hand doors. It features maintenance-free slide bearings and is three-dimensionally adjustable by means of a 4mm Allen key: side ± 3 mm, height ± 3 mm, compression ± 1 mm. This prevents the door from sagging and allows the door manufacturer to align the door efficiently and hassle free.

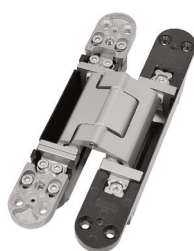
The standard finish is F1 matt chrome which has undergone a Class 3 (96 hours) salt spray test but it is also available F2 matt nickel, SSE stainless steel effect, bronze metallic, PB polished brass, PNP polished nickel plated and SNP satin nickel plated to special order although some premium finishes may require a minimum order quantity. Other sizes are available including TE340 3D 160mm x 28mm (80kg door) and TE640 3D 240mm x 32mm (200kg door). Please call for prices.

Frame receivers are available to order depending on construction of door frame.

Classification . Please see DoP available on our website.

TE540 3D

120kg Hinge, Grade 13, 200x32mm.
F1 Matt chrome.
£166.23 each (Box Qty 2)



TE540 SZ

Hinge receiver for metal frame.
To suit ZTE540 3D hinge.
Galvanised steel.
£30.12 each (Box Qty 1)



THREE KNUCKLE BUTT HINGES

The H1254 hinge is a three knuckle, fixed pin butt hinge based on a 125mm high leaf and using 3.25mm thick material which provides for increased weight loading. Around the standard H1254 hinge are variations for different door thicknesses and fixing positions as well as including projection hinges, electrical conductor, security dog bolt and pivot reinforced hinges. Please call for details.

The standard hinge measures 125mm x 93mm x 3.25mm. It has been tested to BS EN 1935 Grade 12, maximum adjusted door weight 160kg. The recommended minimum door thickness is 44mm. CE Certificate No 1121-CPD-AC0064. These hinges are suitable for use on fire doors: Certifire approved - CF209. Please see DoP available on our website.

H1254.FR.SZP

160kg Hinge, 125mm x 93mm x 3.25mm.
Satin zinc plated steel, fixed pin.
Radiused corners R10.
Wood screws included.
£44.86 each (Box Qty 3)



SYNTHETIC BEARING HINGES



H164-76761105

76mm x 76mm x 2mm.
Plain hinge, double nylon bearings.
Loose knurled steel pin.
Mild steel, zinc plated.
£6.14 each (Box Qty 6)



H164-89891105

89mm x 89mm x 2.4mm.
Plain hinge, double nylon bearings.
Loose knurled steel pin.
Mild steel, zinc plated.
£6.67 each (Box Qty 6)



H164-89891125

89mm x 89mm x 2.4mm.
Security stud hinge, double nylon bearings.
Loose knurled steel pin.
Mild steel, zinc plated.
£7.89 each (Box Qty 6)

UNWASHERED STAINLESS STEEL HINGES



H367-76763003

76mm x 76mm x 2mm.
Plain hinge, radius corners.
Loose stainless steel pin.
Stainless steel, satin finish.
£7.37 each (Box Qty 24)



H367-89893003

89mm x 89mm x 2.4mm.
Plain hinge, radius corners.
Loose stainless steel pin.
Stainless steel, satin finish.
£12.50 each (Box Qty 8)



H367-89893023

89mm x 89mm x 2.4mm.
Security stud hinge, radius corners.
Loose stainless steel pin.
Stainless steel, satin finish.
£12.70 each (Box Qty 8)

LIFT OFF FLAG HINGES



10288 G

Flag hinge, 102mm x 88mm.
Brushed stainless steel.
Left hand.
To suit 40kg door when used 3 hinges per leaf.
£21.87 each (Box Qty 10)



10288 D

Flag hinge, 102mm x 88mm.
Brushed stainless steel.
Right hand.
To suit 40kg door when used 3 hinges per leaf.
£21.87 each (Box Qty 10)



1981 GC

Flag hinge, 80mm x 58mm.
Brushed stainless steel.
Left hand.
£15.52 each (Box Qty 10)



1981 DC

Flag hinge, 80mm x 58mm.
Brushed stainless steel.
Right hand.
£15.52 each (Box Qty 10)

PLEASE NOTE THAT ALL SPECIALIST HINGES ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.

A110 GEARED CONTINUOUS HINGES

High performance, heavy duty, geared continuous door hinges that dissipate kick-back and impact shock while maintaining smooth, effortless door swing. Unlike conventional butt hinges, the A110 geared hinge spreads stress along the full length of the door and frame. Manufactured from heavy gauge aluminium alloy with solid support blocks of self-lubricating Delrin, these hinges are perfect for new or retrofit construction projects. The template hole pattern allows for advance door and frame preparation.

REPLACEMENT FOR ZERO 910DBAA

These A110 hinges replace the 910DBAA double bearing hinges from Zero which have been discontinued. This replacement hinge is almost identical although the screw pattern and lengths are slightly different. The A110 is only available double bearing so there is no direct replacement for the 910AA single bearing hinge; it will be necessary to use the A110 instead.

910AA and 910DBAA 2134mm (84 inches) will become A110 83 2108mm (83 inches)
 910AA and 910DBAA 2438mm (96 inches) will become A110 95 2413mm (95 inches)
 910AA and 910DBAA 2743mm (108 inches) will become A110 120 3048mm (120 inches)

STANDARD FEATURES

Fully concealed, heavy duty aluminium continuous geared hinges. Flush mount with no door inset.

OPTIONS

Non-standard options include hospital tips (HT), concealed electrical pass through with thru-wire (TW), to suit lead lined door (LL), and school option with non-removable cap (SC).

DOOR WIDTH AND WEIGHT

Suits doors up to 200kg and 1219mm wide.

STANDARD LENGTHS

Stocked 83 inches / 2108mm (A110 HD 83), 95 inches / 2413mm (A110 HD 95) and 120 inches / 3048mm (A110 HD 120). Also available 79 inches / 2006mm (A110 HD 79) and 85 inches / 2159mm (A110 HD 85) to special order. Hinges can be cut on site to suit different door heights; they should always be cut from the bottom.

FINISHES

Stocked clear anodised silver aluminium. Also available dark bronze anodised aluminium and black anodised aluminium to special order.

FASTENERS

Supplied with 12-24 x 7/8" Phillips Flat Head, undercut, self-drilling, thread forming TEK screws.



A110 HD 83

Full concealed aluminium continuous geared hinge.
 Double bearing.
 83 inches / 2108mm long.
 Clear anodised silver aluminium.
 Box Qty 1, Outer 6



A110 HD 95

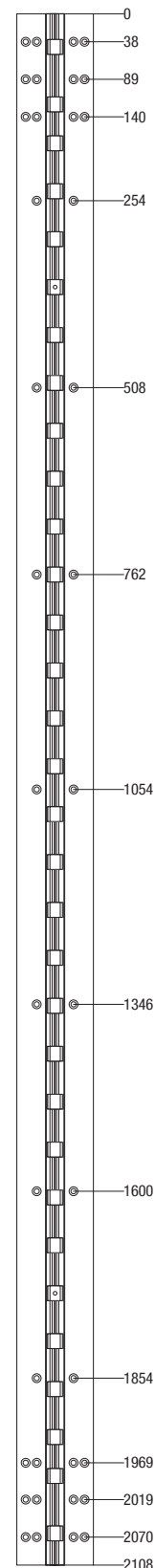
Full concealed aluminium continuous geared hinge.
 Double bearing.
 95 inches / 2413mm long.
 Clear anodised silver aluminium.
 Box Qty 1, Outer 6



A110 HD 120

Full concealed aluminium continuous geared hinge.
 Double bearing.
 120 inches / 3048mm long.
 Clear anodised silver aluminium.
 Box Qty 1, Outer 6

OLD HINGE		NEW HINGE		PRICE	UNIT
PRODUCT CROSS REFERENCE CHART (SINGLE BEARING)					
910AA-84"	2134mm	A110 HD 83	2108mm	£154.32	each
910AA-96"	2438mm	A110 HD 95	2413mm	£189.76	each
PRODUCT CROSS REFERENCE CHART (DOUBLE BEARING)					
910DBAA-84"	2134mm	A110 HD 83	2108mm	£154.32	each
910DBAA-96"	2438mm	A110 HD 95	2413mm	£189.76	each
910DBAA-108"	2743mm	A110 HD 120	3048mm	£228.65	each



A110 HD 83 DIMENSIONS

PLEASE NOTE THAT ALL SPECIALIST HINGES ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.

ZEROPLUS CONTIPIN SECURITY HINGES

Heavy duty steel and stainless steel continuous door hinges that spread stress along the full length of the door and frame. The 970 is a heavy duty continuous hinge, close flat type, i.e. if hinge is closed the leaves are lying back on back. Available in Grade 304 self-colour stainless steel (STST) or zinc plated mild steel (ZP), Grade 316 stainless steel is available to special order (minimum order quantities may apply). The hinge is 100mm wide overall (± 1 mm) and has a material thickness of 2.5mm, with 6mm pin, 11mm knuckle and 50.8mm joints. Its pin is clinched one end to prevent the pin rising. Another advantage of using continuous hinges is that they prevent fingers getting trapped on the pull side of the door.

STANDARD FEATURES

This hinge's pin is clinched one end to stop the pin rising out of the hinge in operation. The clinched end should be fitted at the top of the door. The hinge is template drilled as per the patterns below: this makes it particularly suitable for steel doors, particularly as the hinge is a close flat type, i.e. the leaves lie back to back when the hinge is closed.

DOOR WIDTH AND WEIGHT

Suits doors up to 200kg and 1219mm wide.

STANDARD LENGTHS

Stocked 2134mm and 2438mm. Hinges can be cut on site to suit different door heights. They should always be cut from the bottom end, which is the end where the pin is not clinched.

MATERIALS AND FINISHES

Stocked zinc plated mild steel (ZP) and Grade 304 stainless steel self-colour (STST).

FASTENERS

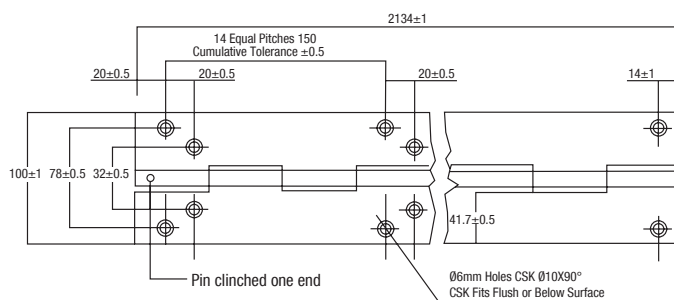
Fasteners not included. Drilled with countersunk 6mm diameter holes. If using machine screws it is recommended to use undercut machine screws so they do not bottom out.

FIRE TESTING

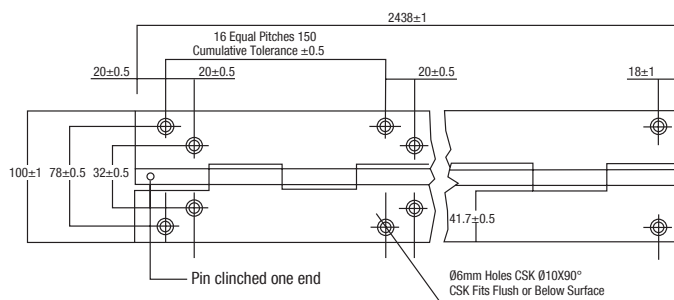
Both sizes of these continuous door hinges in mild steel and stainless steel have been assessed by Exova Warringtonfire for use on previously fire tested (or assessed by Exova Warringtonfire or Chiltern International Fire) insulated and uninsulated steel-based doorsets which have achieved up to 240 minutes integrity, and where appropriate insulation, in accordance with BS EN 1634-1:2014, without detracting from the overall performance of the doorset. The doorset may be of single-leaf or double-leaf configuration. Copy of WF Assessment Report No 387313 Issue 5 available on request.

TEMPLATE PATTERN

The two drawings below show the templates for 2134mm and 2438mm lengths. This template hole pattern allows for advance door and frame preparation.



TEMPLATE PATTERN 970 2134MM LONG



TEMPLATE PATTERN 970 2438MM LONG



970ZP

Heavy duty continuous hinge for steel doors. Mild steel, zinc plated finish. Template drilled. 100mm wide when open, closed flat type.

970ZP-2438 2438mm long £107.43 each



970STST

Heavy duty continuous hinge for steel doors. Grade 304 stainless, self-colour finish. Template drilled. 100mm wide when open, closed flat type.

970STST-2134 2134mm long £172.22 each

970STST-2438 2438mm long £196.32 each



TOP VIEW

PLEASE NOTE THAT ALL SPECIALIST HINGES ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.

WELD-ON BULLET HINGES

This is a complete range of weld-on hinges for welding to steel doors and frames. Sizes vary from heights of 40mm high up to 200mm, and knuckle diameters of 10mm up to 22.2mm. Standard hinges with brass washers can be supplied with either steel pins or brass pins. The HPL WR SS Series has stainless steel pins and washers. The HPL WR SM Series has a grease nipple for maintenance purposes. The HPL WR A hinge has a ball bearing washer and is adjustable.

REF	HEIGHT	DIAMETER	PRICE	UNIT	BOX QTY
HPL WR 0 SERIES - PLAIN STEEL WELD-ON HINGES, WITH STEEL PIN AND BRASS WASHER					
HPL WR 0 040	40mm	10mm	£1.87	each	24
HPL WR 0 060	60mm	10mm	£1.87	each	24
HPL WR 0 080	80mm	11.8mm	£2.75	each	24
HPL WR 0 100	100mm	14mm	£3.46	each	24
HPL WR 0 120	120mm	16mm	£4.51	each	24
HPL WR 0 140	140mm	16mm	£4.91	each	24
HPL WR 0 160	160mm	20mm	£9.53	each	12
HPL WR 0 180	180mm	21.8mm	£12.57	each	12
HPL WR 0 200	200mm	22mm	£13.99	each	12
HPL WR 1 SERIES - PLAIN STEEL WELD-ON HINGES, WITH BRASS PIN AND BRASS WASHER					
HPL WR 1 040	40mm	10mm	£2.54	each	24
HPL WR 1 060	60mm	10mm	£2.84	each	24
HPL WR 1 080	80mm	11.8mm	£3.43	each	24
HPL WR 1 100	100mm	14mm	£5.16	each	24
HPL WR 1 120	120mm	16mm	£6.66	each	24
HPL WR 1 140	140mm	16mm	£6.66	each	24
HPL WR 1 160	160mm	20mm	£13.56	each	12
HPL WR 1 180	180mm	21.8mm	£16.47	each	12
HPL WR 1 200	200mm	22mm	£18.27	each	12
HPL WR SS SERIES - GRADE 304 STAINLESS STEEL WELD-ON HINGES, WITH STAINLESS STEEL PIN AND STAINLESS STEEL WASHER					
HPL WR SS 040	40mm	10mm	£7.38	each	24
HPL WR SS 060	60mm	10mm	£8.65	each	24
HPL WR SS 080	80mm	12mm	£12.32	each	24
HPL WR SS 100	100mm	13.5mm	£15.32	each	24
HPL WR SS 120	120mm	14.5mm	£21.19	each	24
HPL WR SS 140	140mm	16mm	£23.56	each	24
HPL WR SS 160	160mm	20mm	£31.78	each	12
HPL WR SM SERIES - PLAIN STEEL WELD-ON HINGES WITH GREASE NIPPLE, WITH STEEL PIN AND BRASS WASHER					
HPL WR SM 080	80mm	12mm	£5.36	each	24
HPL WR SM 100	100mm	13.5mm	£6.13	each	24
HPL WR SM 120	120mm	14.5mm	£7.49	each	24
HPL WR SM 140	140mm	16mm	£8.11	each	24
HPL WR SM 160	160mm	20mm	£14.36	each	12
HPL WR SM 180	180mm	21.8mm	£15.83	each	12
HPL WR A SERIES - PLAIN STEEL ADJUSTABLE WELD-ON HINGES, WITH STEEL PIN AND ZINC PLATED BALL BEARING WASHER					
HPL WR A 150	150mm	22.2mm	£20.82	each	12



HPL WR 0



HPL WR 1



HPL WR SS



HPL WR SM

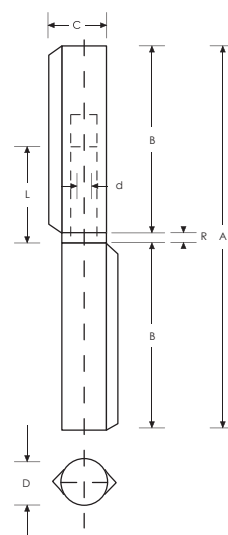


HPL WR A

TECHNICAL SPECIFICATIONS

REF	OVERALL HEIGHT A (MM)	BULLET HEIGHT B (MM)	BULLET WIDTH C (MM)	BULLET DIAMETER D (MM)	PIN DIAMETER d (MM)	PIN HEIGHT L (MM)	WASHER THICKNESS R (MM)	CAPACITY IN KG PER PAIR
HPL WR 200	200	98	24.4	22	14	33	3	100
HPL WR 180	180	88	24.2	21.8	14	33	2.5	100
HPL WR 160	160	76	22.8	20	12	29	2.5	80
HPL WR 140	140	69	17.7	16	9	23	2.5	60
HPL WR 120	120	58.5	17.7	16	9	23	2.5	60
HPL WR 100	100	49	15.6	14	8	23	2	50
HPL WR 080	80	39	13.2	11.8	7	17	2	40
HPL WR 060	60	29	10.9	10	6	17	2	20
HPL WR 040	40	19	10.9	10	6	14.4	1.5	20
HPL WR A 150	150	71.7	25.5	22.2	14.3	37.5	6.5	100

PLEASE NOTE THAT ALL SPECIALIST HINGES ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.



PROQUINTER SPRING HINGES

Spring hinges to suit either single swing doors or double swing doors. Typically used on bin stores, ranch doors, food industry doors and factory cabinets. With adjustable spring strength to alter closing power, supplied with tension bar and locking pin. Lubrication hole in knuckle. Riveted head standard for silver sprayed finish (except 200mm size) and classic threaded cap standard on stainless steel patterns. Brass and stainless steel hinges are only available with threaded classic caps.

NOT SUITABLE FOR USE ON FIRE RATED DOORS.

Material: Mild steel and stainless steel ex-stock.

Finish: Mild steel are silver sprayed finish (AVG) and stainless steel are satin finish.

Sizes: 75mm, 100mm, 125mm, 150mm, 175mm and 200mm ex-stock (please note 200mm not available riveted head in mild steel silver sprayed - supplied classic threaded cap only).

Packed: Packed in pairs without screws (except 200mm stainless steel which is supplied with screws).

Variants: Available with classic threaded caps. Also available with reverse springing to keep the door open. Zinc plated springs available to special order.

Handing: All hinges will suit either clockwise or anti-clockwise closing doors.

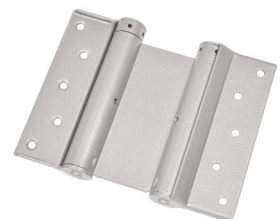
Fitting: Full instructions supplied in each box. Safety glasses should be worn during installation and tensioning.

NO.	SIZE	MAX DOOR WEIGHT	DESCRIPTION	MILD STEEL SILVER SPRAYED RIVETED HEAD	STAINLESS STEEL INOX 304 SATIN CLASSIC THREADED CAP	BOX QTY
SINGLE ACTION HINGES (PAIRS)						
NO.0	75mm	15kg	Pair single action spring hinges	102300 £20.27 pair	150000 £85.83 pair	1 pair
NO.1	100mm	22kg	Pair single action spring hinges	102301 £23.97 pair	150001 £105.20 pair	1 pair
NO.5	125mm	27kg	Pair single action spring hinges	102305 £31.54 pair	150005 £141.60 pair	1 pair
NO.9	150mm	40kg	Pair single action spring hinges	102309 £44.25 pair	101509 £182.05 pair	1 pair
NO.13	175mm	55kg	Pair single action spring hinges	102313 £84.57 pair	101513 £232.21 pair	1 pair
NO.17	200mm	70kg	Pair single action spring hinges	121117 ▲ £144.92 pair	101517 £404.17 pair	1 pair
DOUBLE ACTION HINGES (PAIRS)						
NO.29	75mm	15kg	Pair double action spring hinges	102329 £30.16 pair	150029 £108.20 pair	1 pair
NO.30	100mm	22kg	Pair double action spring hinges	102330 £35.12 pair	150030 £136.21 pair	1 pair
NO.33	125mm	27kg	Pair double action spring hinges	102333 £47.20 pair	150033 £167.54 pair	1 pair
NO.36	150mm	40kg	Pair double action spring hinges	102336 £61.44 pair	150036 £251.24 pair	1 pair
NO.39	175mm	55kg	Pair double action spring hinges	102339 £107.81 pair	150039 £276.39 pair	1 pair
NO.42	200mm	70kg	Pair double action spring hinges	101142 ▲ £173.86 pair	101542 £587.77 pair	1 pair

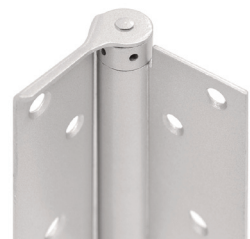
▲ 200mm mild steel silver sprayed No.17 and No.42 only available with classic threaded cap.



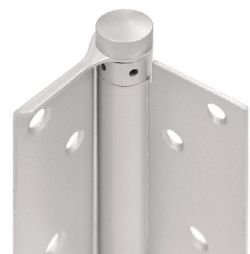
SINGLE ACTION



DOUBLE ACTION



RIVETED HEAD



CLASSIC THREADED CAP

SPARE LOCKING PINS AND TENSION BARS		PRICE	UNIT	BOX QTY
110005	Spare locking pin, small size (No.0/1/5 & 29/30/33)	£0.60	each	10
110036	Spare locking pin, medium size (No.9/13 & 36/39)	£0.60	each	10
110042	Spare locking pin, large size (No.17 & 42)	£0.60	each	10
110002	Spare tension bar, small size	£0.60	each	10
110001	Spare tension bar, large size	£0.60	each	10

SINGLE AND DOUBLE ACTION DIMENSIONS AND WEIGHTS												
HINGE #	0	1	5	9	13	17	29	30	33	36	39	42
HINGE HEIGHT (MM)	75	100	125	150	175	200	75	100	125	150	175	200
DOOR THICKNESS (MM)	18-25	25-30	30-35	35-40	40-45	40-45	18-25	25-30	30-35	35-40	40-45	40-45
MAX DOOR WIDTH (MM)	600	700	700	750	850	1000	600	700	700	750	850	1000
MAX DOOR WEIGHT (KG)	15	22	27	40	55	70	15	22	27	40	55	70

PLEASE NOTE THAT ALL SPECIALIST HINGES ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

WWW.ZEROPLUS.CO.UK
TEL: +44 (0)1785 282910

SURFACE FIXING BEVEL HINGE BOLTS

If it is known at time of manufacture that steel doors will be fitted externally and open outwards, it is likely that security hinges with integral security studs (sometimes called dog bolts) will be used as shown on page 115. These improve door to frame security since one of the most common ways to compromise an outward opening external door is to hacksaw or knock out the hinge pins and then lever the door out of its frame.

However, not all doors in these vulnerable situations are hung on hinges with integral security studs so a separate independent hinge bolt may be required. For this reason we have developed the Z480 and Z490 independent bevel hinge bolts. They are an additional security product, designed for retro-fitting to existing external steel doors and frames, to combat the possibility of perimeter outward opening doors being levered out of the frames if hinge pins are tampered with. The bevel hinge bolt is surface mounted on the inside of the door and two slots cut in the frame to accommodate the bevel bolts as the door closes into the shut position. In this way the bevel bolts engage each time the door is closed and disengage when it is opened.

They are manufactured from zinc plated mild steel and powder coated silver grey. It is recommended to use two bevel hinge bolts on each door leaf, one high just below the top hinge, and one low just above the bottom hinge. It is not handed and will suit either hand of door.

It was originally designed for fitting to steel doors so the frame plate may not be necessary if two slots are cut in the metal door frame to receive the bevel bolts, each slot measuring 20mm wide x 12mm high. It can also be fitted to existing timber doors, in which case the 30mm wide x 100mm high frame plate will fit over the two holes made in the frame. For this reason, the bevel hinge bolt can be supplied with or without the frame plate.

The Z480 and Z490 are ideal for industrial applications, pumping stations, plant rooms, electrical sub-stations etc. Not to be used in public areas due to ligature risk. There is no advantage in using products like these on inward opening doors.

Z480

Bevel dog bolts with frame plates.

100x30mm. Fixings not included.

Mild steel, silver grey.

£65.13 pack of 2 bolts and 2 frame plates (Box Qty 5)

Z490

Bevel dog bolts without frame plates.

100x30mm. Fixings not included.

Mild steel, silver grey.

£47.93 pack of 2 bolts (Box Qty 5)



RETROFIT - FOR STEEL OR TIMBER DOORS

YALE-CHUBB SECURITY HINGE BOLTS

These security hinge bolts provide added security on outward opening external doors with exposed hinge knuckles and deter intruder access through the door. Hinge bolts will help to reinforce the hinge side of the door, keeping the door in the frame when the door or hinges are forcibly attacked. Normally only used on external outward opening wooden doors. They are supplied in a pack of two bolts and two receivers which is suitable for one door leaf, and come complete with fixing screws for wooden doors. The bolt which fits in the door is 19mm diameter and 44mm deep while the receiver which fits in the frame is 25mm wide x 70mm high. The hinge bolts should be fitted 75mm below the top hinge and 75mm above the bottom hinge. Only available in WE white finish. Previously branded Chubb, now branded Yale.

ZWS12

Security hinge bolt.

44x19mm.

White.

£49.46 pack of 2 bolts (Box Qty 2)



MORTICE - FOR TIMBER DOORS

INDEPENDENT HINGE BOLTS

Where additional security is required for external doors opening outwards, hinges are usually supplied with integral security studs. Please see page 115 for hinges with security studs for use on new build projects. The security studs help prevent forced entry by stopping doors being levered out of frames even if the hinge pins have been driven out.

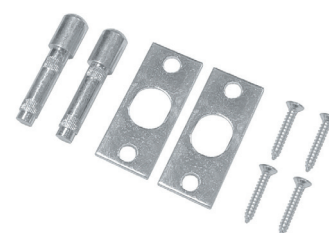
Where doors have already been fitted with standard hinges without security studs, it is possible to fit independent hinge bolts - these are sometimes referred to as "dog bolts". These are designed for use on timber doors, but can also be used on steel doors. However on steel doors it will be necessary to weld the hinge bolts in place. The hinge bolts should be fitted 75mm below the top hinge and 75mm above the bottom hinge. The bolts should be fitted in the door and the receiver plates fitted to the frame. They are manufactured from mild steel which is then bright zinc plated. They are supplied in pairs with two hinge bolts and two receiver plates packed together with screws for timber doors.

Z470

Independent hinge bolts.

Bright zinc plated.

£9.96 pair (Box Qty 10)



FOR STEEL OR TIMBER DOORS

CONCEALED OVERHEAD TRANSOM CLOSERS

The Z801 is a transom closer designed to be fitted above the door and concealed in timber or metal transoms. They are supplied with either side loading or end loading arms and a bottom pivot pack. They have separate closing speed and latch controls, and suit double action or single action doors. These units are all Size 3 medium duty with a maximum opening angle of 130°. A matching free swing dummy unit is available (ref. Z801.5). Mechanisms are available with 2.5mm extended spindle (/2.5mm) £3.82 extra.

Please specify whether Hold-Open at 90° (HO) or Non Hold-Open (NHO) units are required when ordering.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z801.1/HO	Size 3 mechanism only, Hold-Open at 90° (no fittings)	£98.15	each	1
Z801.1/NHO	Size 3 mechanism only, Non Hold-Open (no fittings)	£98.15	each	1
Z801.2/HO	Size 3 mechanism with standard side load arm & pivot pack, Hold-Open at 90°	£114.23	each	1
Z801.2/NHO	Size 3 mechanism with standard side load arm & pivot pack, Non Hold-Open	£114.23	each	1
Z801.3/HO	Size 3 mechanism with short side load arm & pivot pack, Hold-Open at 90°	£114.23	each	1
Z801.3/NHO	Size 3 mechanism with short side load arm & pivot pack, Non Hold-Open	£114.23	each	1
Z801.4/HO	Size 3 mechanism with end load arm & pivot pack, Hold-Open at 90°	£114.23	each	1
Z801.4/NHO	Size 3 mechanism with end load arm & pivot pack, Non Hold-Open	£114.23	each	1
Z801.5	Transom dummy, free swing unit complete with standard side load arm and pivot pack	£114.23	each	1



Z801.6

F bracket for 65mm pivot point (optional).
£5.62 each (Box Qty 1)



Z801.7

Standard side load bottom pivot set with metric thread.
£22.53 each (Box Qty 10)



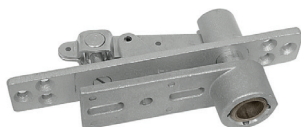
Z801.8

Standard side load bottom pivot set with imperial Whitworth thread (generally for service work on older pre-2009 doors).
£22.53 each (Box Qty 10)



Z801.9

Short side loading arm for finger trap doors.
£31.55 each (Box Qty 10)



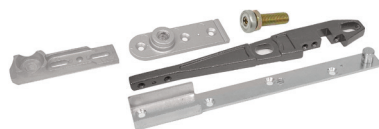
Z801.10

Retractable top centre.
£36.05 each (Box Qty 10)



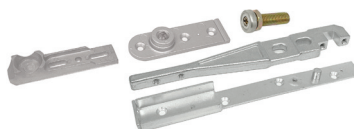
Z801.11*

End loading arm.
£31.67 each (Box Qty 10)



Z801.12

Standard side load arm and pivot pack (as used in Z801.2) to order separately, overall arm length 254mm.
£54.08 each (Box Qty 10)



Z801.13

Short side load arm and pivot pack (as used in Z801.3) to order separately, overall arm length 240mm.
£54.08 each (Box Qty 10)



Z801.14

End load arm and pivot pack (as used in Z801.4) to order separately.
£54.08 each (Box Qty 10)

PNEUMATIC FLYSCREEN CLOSER

Pneumatic door closer widely used on flyscreen doors, with adjustable closing speed. This is achieved by adjusting the valve screw at the end of the closer. The unit is 265mm long x 30mm diameter.

The bracket fits to the side of the door frame and the pneumatic unit fits to the push side of the door. It is usually fitted at the top of the door but can be fitted at mid-height. Supplied complete with tension locking washer, fixing screws and pins, and full installation instructions. Available singly or in boxes of ten.

- Pneumatic control.
- Adjustable closing speed.
- Silver sprayed as standard.
- Not suitable for use on fire doors.

Z136 Silver sprayed £20.99 each (Box Qty 10)



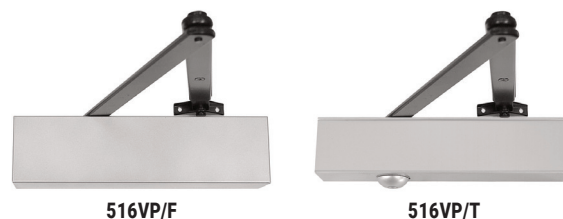
PLEASE NOTE THAT ALL SPECIALIST CLOSERS ON THIS PAGE ARE NOT CE MARKED AND DO NOT HAVE A DoP. NOT FOR USE ON FIRE DOORS.

OVERHEAD DOOR CLOSERS

516VP ADJUSTABLE POWER SIZE 1-6 HEAVY DUTY DOOR CLOSER

The 516VP closer has been designed to incorporate maximum power, durability and efficiency, combined with high quality for today's more demanding door closer application. This flexible multi-power closer has a size range from 1-6, and is supplied with hydraulic oil as standard.

- Adjustable power size 1-6 (door width 750-1400mm, and weight 20-120kg).
- Simple power adjustment by means of Allen key.
- Individual controls for door speed and latching.
- Backcheck (BC) and delayed (DA) closing options available.
- Regular arm, parallel arm and transom mounting as standard.
- Fire Tested in accordance with BS EN 1634-1:2000.
- Certifire Approved No CF 497.
- Tested to BS EN 1154:1996: A1:2002. CE marked. DoP on our website.
- Enables door opening to 180°.
- Adjustable hold-open armset available to special order (not fire rated).
- Silver Standardline All Over Cover (/F) or Trim Slide Cover (/T) or Grade 304 Stainless Steel All Over Cover.



REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
516VP SILVER BODY & BLACK ARMS								
516VP/T-SIL	1-6	No	Trim slide cover	Silver	Black	£161.11	each	5
516VP/F-SIL	1-6	No	Standardline AOC	Silver	Black	£145.93	each	5
516VP/F/BC-SIL	1-6	Yes	Standardline AOC	Silver	Black	£154.00	each	5

£54.21 extra for black mechanical hold-open armset (not fire rated) #325HO-BLK.

£13.25 extra for delayed action available to special order /DA.

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
516VP STAINLESS STEEL BODY & SIMULATED STAINLESS STEEL MATCHING ARMS								
516VP/F-SS	1-6	No	Standardline AOC	Stainless steel	Matching simulated	£228.92	each	5
516VP/F/BC-SS	1-6	Yes	Standardline AOC	Stainless steel	Matching simulated	£246.19	each	5

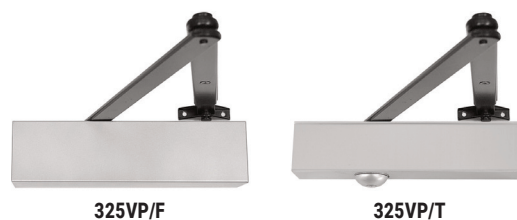
£109.33 extra for simulated stainless steel hold-open armset available to special order (not fire rated) #325HO-SS (chrome plated steel actual).

£13.25 extra for delayed action available to special order /DA.

325VP MULTI POWER SIZE 2-5 DOOR CLOSER

The 325VP closer will satisfy the door manufacturer that is looking for a flexible multi-power closer that can be adjusted to provide power sizes 2-5. It is supplied with hydraulic oil as standard.

- Adjustable power size 2-5 (door width 850-1250mm, and weight 40-100kg).
- Simple power adjustment by means of Allen key.
- Individual controls for door speed and latching.
- Backcheck (BC) and delayed (DA) closing options available.
- Regular arm, parallel arm and transom mounting as standard.
- Fire Tested in accordance with BS EN 1634-1:2000 (Fig 1 only).
- Certifire Approved No CF 277.
- Tested to BS EN 1154:1996: A1:2002. CE marked. DoP on our website.
- Enables door opening to 167° (Fig 1) and 115° (Fig 6).
- Silver Standardline All Over Cover (/F) or Trim slide cover (/T) or Grade 304 Stainless Steel All Over Cover.
- Adjustable hold-open armset available to special order (not fire rated).



REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
325VP SILVER BODY & BLACK ARMS								
325VP/T-SIL*	2-5	No	Trim slide cover	Silver	Black	£103.71	each	5
325VP/F-SIL	2-5	No	Standardline AOC	Silver	Black	£92.78	each	5
325VP/T/BC-SIL	2-5	Yes	Trim slide cover	Silver	Black	£111.99	each	5
325VP/F/BC-SIL	2-5	Yes	Standardline AOC	Silver	Black	£103.71	each	5

£54.21 extra for black mechanical hold-open armset (not fire rated) #325HO-BLK.

£13.25 extra for delayed action available to special order /DA.

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
325VP STAINLESS STEEL BODY & SIMULATED STAINLESS STEEL MATCHING ARMS								
325VP/F-SS	2-5	No	Standardline AOC	Stainless steel	Matching simulated	£150.44	each	10
325VP/F/BC-SS	2-5	Yes	Standardline AOC	Stainless steel	Matching simulated	£164.87	each	10

£109.33 extra for simulated stainless steel mechanical hold-open armset available to special order (not fire rated) #325HO-SS (chrome plated steel actual).

£13.25 extra for delayed action available to special order /DA.

BRITON 131 OVERHEAD DOOR CLOSER

BRITON 131 REGULAR DUTY TEMPLATE ADJUSTABLE SIZE 2-4 DOOR CLOSER

The Briton 131 is a surface mounted overhead door closer with screw thread armset that has adjustable power size 2-4 depending on template mounting position on door. Based on a cast aluminium body, this reversible unit is supplied without cover and is attractively priced. All units have a 10 year performance guarantee for reassurance. CE Classification 382-4113 (Fig 1), 383113 (Fig 66) but Fig 61 Transom mount not CE marked.

- Adjustable EN power sizes 2-4 (door width 850-1100mm and weight 40-80kg), depending on mounting position.
- Two individual controls for door closing speed from 180° opening (EN 4 105°) through to final 15°, and latching speed in the last 15° of the closing cycle.
- Universal handing to suit LH and RH doors. Maximum opening angle 180° in power size 2 & 3 and 105° in power size 4 in Fig 1 and Fig 61 applications. 160° in power size 3 in Fig 66.
- Standard armset for regular mounting (Fig 1) and transom mounting (Fig 61) only. Parallel bracket for Fig 66 mounting included. Optional hold-open armset available to special order. Ref 131.APH.SE silver finish only. Not for use on fire door applications.
- Fire tested to BS EN 1634-1:2000, 2 hours on timber doors and 4 hours on steel doors (insulated and uninsulated). Certifire Approved No CF 5512. CE marked to EN 1154:1996/A1:2002/AC:2006. DoP on our website.
- Available in silver (SES) as standard and other RAL colours to special order.



131

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
131 SILVER SPRAYED BODY & SILVER ARMS								
131-SES	2-4	No	None	Silver	Silver	£41.89	each	6

BRITON CAM ACTION DOOR CLOSERS

BRITON 2700 SERIES HEAVY DUTY CAM ACTION DOOR CLOSER SIZE 2-5 WITH SLIDE CHANNEL, BACKCHECK AND DELAYED ACTION

The Briton 2700 Series is a precision manufactured cam action, slide channel door closer, in a compact overhead surface fixed unit. In contrast to a conventional rack and pinion door closer in a slide channel application, the linear cam action principle is extremely efficient allowing the closer to be set to provide reliable closing power for fire door applications yet still be easy to open. The initial force required to open the door decreases rapidly as the door opens allowing children and the elderly in particular to overcome the closing power more easily. Based on a cast iron mechanism with cam action, this reversible unit has only two models that satisfy all applications. All units have a 10 year performance guarantee for reassurance. CE Classification 482-5113.

- Adjustable EN power sizes 2-5 to suit door width 850-1250mm, and weight 40-100kg. (Note EN 2-4 only when push side transom mounted).
- Universal handing to suit LH and RH doors. Capable of meeting BS 8300 requirements for use on accessible routes.
- Pull side door / push side transom mounted (FIG 1) or push side door / pull side transom mounted (FIG 66).
- Four individual controls for door closing speed from 120° opening through to final 15°, latching speed in the last 15° of the closing cycle, adjustable backcheck and adjustable delayed action between 70° and 120° (included as standard).
- Maximum opening angle 180° when mounted on pull side, 120° when mounted on push side (or electromagnetic hold open unit).
- Optional mechanical hold-open kit available to special order. Ref 2720.HP.SE. Not for use on fire door applications. Electromagnetic hold-open options (Note EN 3-5 only) available to special order. Special mounting bracket available for doors with a deep reveal, Ref 2721.DVP.SE.
- Fire tested to BS EN 1634-1:2000, 2 hours on timber doors and 1 hour on steel doors. Certifire Approved No CF 738. CE marked to EN 1154:1996/A1:2002/AC:2006. DoP on our website.
- Available in sprayed silver (SES) Softline all over cover as standard. Also available in electro plated metallic finishes satin stainless steel (SSS), polished stainless steel (PSS) and polished brass (PBS) to special order.



2720BD.T.S

REF	SIZE	BACKCHECK	DELAYED ACTION	COVER	BODY FINISH	ARM FINISH	MOUNTING	PRICE	UNIT	BOX QTY
2700 SILVER SPRAYED A-LINE ALL OVER COVER, SLIDE CHANNEL & ARM										
2720BD.T.S-SES	2-5	Yes	Yes	Softline AOC	Silver	Silver	FIG 1	£187.14	each	2
2721BD.T.S-SES	2-5	Yes	Yes	Softline AOC	Silver	Silver	FIG 66	£187.14	each	2

BRITON 2300 SERIES CAM ACTION DOOR CLOSER SIZE 2-4 WITH SLIDE CHANNEL AND BACKCHECK

The Briton 2300 Series incorporates the same high efficiency cam action as the Briton 2700 Series above, providing the same exceptional ease of use by reducing the resistance encountered when opening the door. It is a simpler version of the Briton 2700 Series. Based on an extruded aluminium body with cam action, this reversible unit has only two models that satisfy all applications. All units have a 10 year performance guarantee for reassurance. CE Classification 482-4113.

- Adjustable EN power sizes 2-4 to suit door width 850-1100mm, and weight 40-80kg.
- Universal handing to suit LH and RH doors. Capable of meeting BS 8300 requirements for use on accessible routes.
- Pull side door / push side transom mounted (FIG 1) or push side door / pull side transom mounted (FIG 66).
- Three individual controls for door closing speed from 120° opening through to final 15°, latching speed in the last 15° of the closing cycle, and adjustable backcheck between 70° and 120° (included as standard).
- Maximum opening angle 180° when mounted on pull side but restricted to 120° when mounted on push side.
- Optional mechanical hold-open kit available to special order. Ref 2320.HP.SE. Not for use on fire door applications.
- Fire tested to BS EN 1634-1:2000, 2 hours on timber doors. Not suitable for steel fire doors. Certifire Approved No CF 5291. CE marked to EN 1154:1996/A1:2002/AC:2006. DoP on our website.
- Available with sprayed silver (SES) Trimplate cover and sprayed silver (SES) Softline all over cover (S) as standard. Softline cover also available in electro plated metallic finishes satin stainless steel (SSS) and polished stainless steel (PSS) to special order.



2320B.T

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	MOUNTING	PRICE	UNIT	BOX QTY
2300 SILVER SPRAYED RADIUS TRIMPLATE COVER OR SOFTLINE AOC, SLIDE CHANNEL & ARM									
2320B.T-SES	2-4	Yes	Trimplate	Silver	Silver	FIG 1	£147.10	each	4
2321B.T-SES	2-4	Yes	Trimplate	Silver	Silver	FIG 66	£147.10	each	4
2320B.T.S-SES	2-4	Yes	Softline AOC	Silver	Silver	FIG 1	£163.91	each	4
2321B.T.S-SES	2-4	Yes	Softline AOC	Silver	Silver	FIG 66	£163.91	each	4

BRITON 1100 SERIES OVERHEAD DOOR CLOSERS

BRITON 1120B ADJUSTABLE POWER SIZE 2-4 DOOR CLOSER

The Briton 1120B is a slimline multi-power closer that can be adjusted to provide power sizes 2-4 and is supplied with backcheck as standard. Based on a cast aluminium body with a hardened steel rack and pinion mechanism, this closer is available with a slide-in Trimplate cover or a Classic square (C) all over cover which conceals all fixings and adjustment screws to reduce the risk of vandalism and tampering (also available with rounded Softline (S) all over cover to special order at extra cost). All units have a 10 year performance guarantee for reassurance. CE Classification 482-4113.

- Adjustable EN power sizes 2-4 (door width 850-1100mm, and weight 40-80kg).
- Simple power adjustment by means of an Allen key at the end of the closer body.
- Individual controls for door closing speed from 180° opening through to final 15°, and latching speed in the last 15° of the closing cycle.
- Supplied with adjustable strength backcheck as standard to minimize risk of damage to the door and frame.
- Tri-pack armset for regular (Fig 1), transom (Fig 61) and parallel mounting options (Fig 66). Universal handing.
- Fire tested to EN 1634-1:2000, 2 hours on timber doors and 4 hours on steel doors (1120B trimplate model only).
- Certifire Approved No CF 388.
- CE marked to EN 1154. DoP on our website.
- Maximum angle of opening with controlled closing 180°.
- High quality hydraulic fluid with temperature compensation from -15°C to +40°C.
- Silver (SES) or simulated stainless steel (SSS) all over cover or silver (SES) trim slide cover.
- Standard armset varies: forged steel screw thread arms with trimplate models and flat form arms with covered variants.
- Optional adjustable hold-open armset available to special order to hold-open between 70° and 150° depending on the mounting application (not for use on fire door applications), silver finish only.



1120B



1120B.C

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
1120B SILVER BODY & SILVER ARMS								
1120B-SES	2-4	Yes	Trim slide cover	Silver	Silver	£62.40	each	10
1120B.C-SES	2-4	Yes	Square AOC	Silver	Silver	£80.25	each	10

£56.45 extra for silver mechanical hold-open armset (not fire rated) #1110.APH-SES.

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
1120B SIMULATED STAINLESS STEEL BODY & MATCHING SIMULATED STAINLESS STEEL ARMS								
1120B.C-SSS	2-4	Yes	Square AOC	Simulated stainless steel	Matching simulated	£101.35	each	10

BRITON 1130B ADJUSTABLE POWER SIZE 2-6 HEAVY DUTY DOOR CLOSER

The Briton 1130B is a slimline multi-power closer that can be adjusted to provide power sizes 2-6 and is supplied with backcheck as standard. Based on a cast aluminium body with a hardened steel rack and pinion mechanism, this closer is available with a slide-in Trimplate cover or a Classic square (C) all over cover which conceals all fixings and adjustment screws to reduce the risk of vandalism and tampering (also available with rounded Softline (S) all over cover to special order at extra cost). All units have a 10 year performance guarantee for reassurance. CE Classification 482-6113.

- Adjustable EN power sizes 2-6 in Fig 1 application (door width 850-1400mm, and weight 40-120kg). Note only EN power sizes 2-5 in Fig 66 parallel arm mounting position (door width 850-1250mm, and weight 40-100kg).
- Simple power adjustment by means of an Allen key at the end of the closer body.
- Individual controls for door closing speed from 180° opening through to final 15°, and latching speed in the last 15° of the closing cycle.
- Supplied with adjustable strength backcheck as standard to minimize risk of damage to the door and frame.
- Tri-pack armset for regular (Fig 1), transom (Fig 61) and parallel mounting options (Fig 66). Universal handing.
- Fire tested to EN 1634-1:2000, 2 hours on timber doors and 4 hours on steel doors (1130B trimplate model only).
- Certifire Approved No CF 388.
- CE marked to EN 1154. DoP on our website.
- Maximum angle of opening with controlled closing 180°.
- High quality hydraulic fluid with temperature compensation from -15°C to +40°C.
- Silver (SES) or simulated stainless steel (SSS) all over cover or silver (SES) trim slide cover.
- Standard armset varies: forged steel screw thread arms with trimplate models and flat form arms with covered variants.
- Optional adjustable hold-open armset available to special order to hold-open between 70° and 150° depending on the mounting application (not for use on fire door applications), silver finish only.



1130B



1130B.C

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
1130B SILVER BODY & SILVER ARMS								
1130B-SES	2-6	Yes	Trim slide cover	Silver	Silver	£114.23	each	6
1130B.C-SES	2-6	Yes	Square AOC	Silver	Silver	£142.56	each	4

£56.45 extra for silver mechanical hold-open armset (not fire rated) #1130.APH-SES.

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
1130B SIMULATED STAINLESS STEEL BODY & MATCHING SIMULATED STAINLESS STEEL ARMS								
1130B.C-SSS	2-6	Yes	Square AOC	Simulated stainless steel	Matching simulated	£166.74	each	4

BRITON 2000 SERIES OVERHEAD DOOR CLOSERS

BRITON 2000 SERIES FIXED STRENGTH SIZES 3 & 4 AND POWER ADJUSTABLE UNIT 1-4 DOOR CLOSERS

The Briton 2000 Series of closers includes the UK's No.1 door closing product, the Briton 2003. It is a compact range of small bodied, fixed strength closers in sizes 3 and 4, and a variable power closer in sizes 1-4. When door size, weight and application is known, fixed strength closers provide an economic solution. With little on-site adjustment needed, installation is quick and trouble-free. The adjustable power 2003V provides the flexibility to fine tune the closing power of the door control in order to achieve the low opening forces necessary to satisfy the requirements of Approved Document M of The Building Regulations and the guidance of BS 8300 in relation to The Equality Act (2010). All units have a 10 year performance guarantee for reassurance. CE Classification 2003 483113, 2004 484113 and 2003V 481-4113.

- 2003 EN power size 3 (door width 950mm, and weight 60kg), 2004 EN power size 4 (door width 1100mm, and weight 80kg).
- 2003V adjustable EN power sizes 1-4 (door width 750-1100mm, and weight 20-80kg) with wind through power adjustment.
- Individual controls for door closing speed from 180° opening through to final 15°, and latching speed in the last 15° of the closing cycle. High quality hydraulic fluid with temperature compensation from -15°C to +40°C.
- 2003V only supplied with adjustable strength backcheck to minimize risk of damage to the door and frame.
- Die cast aluminium body with hardened steel rack and pinion mechanism. Flat form arm in finish to match door closer cover.
- Tri-pack armset for regular (Fig 1), transom (Fig 61) and parallel mounting options (Fig 66). Universal handing.
- Accufit template increases the accuracy of installation and helps to reduce installation time. 2003V will directly retrofit existing 2003 units.
- Fire tested to EN 1634-1:2000, 2 hours on timber doors and 4 hours on steel doors. Certifire Approved No CF 111.
- CE marked to EN 1154. DoP on our website.
- Maximum angle of opening with controlled closing 180°.
- Silver (SES) all over classic cover and matching arm or simulated satin stainless steel (SSS) all over classic cover and matching plated arm.
- Optional adjustable hold-open armset with sturdy cam action knuckle available to special order to hold-open between 80° and 180° depending on the mounting application (not for use on fire door applications).



2003



2003V

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
2000 SILVER BODY & SILVER ARMS								
2003-SES	3	No	Classic AOC	Silver	Silver	£131.22	each	5
2004-SES	4	No	Classic AOC	Silver	Silver	£126.02	each	5
2003V-SES	1-4	Yes	Classic AOC	Silver	Silver	£164.91	each	5

£85.49 extra for silver steel mechanical hold-open armset (not fire rated) #200.APH-SES* to suit 2003/2004 and #2110.APH-SES* to suit 2003V.

REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
2000 SIMULATED SATIN STAINLESS STEEL BODY & MATCHING PLATED SIMULATED ARMS								
2003-SSS*	3	No	Classic AOC	Simulated stainless steel	Matching plated	£172.80	each	5
2004-SSS*	4	No	Classic AOC	Simulated stainless steel	Matching plated	£188.73	each	5
2003V-SSS*	1-4	Yes	Classic AOC	Simulated stainless steel	Matching plated	£182.24	each	5

BRITON 121 BUDGET OVERHEAD DOOR CLOSER

BRITON 121CE FIXED STRENGTH SIZE 3 DOOR CLOSER

The Briton 121CE is a fixed power, compact overhead door closer which is suitable for the most common door sizes. This cost effective closer solution exhibits the characteristics of performance, durability and quality that specifiers have come to expect from a Briton door control. With simple, no nonsense installation, the Briton 121CE comes with a screw thread armset as standard. All units have a 10 year performance guarantee for reassurance. CE Classification 483113.

- Fixed power size 3 (door width 950mm, and weight 60kg).
- Individual controls for door closing speed from 180° opening through to final 15°, and latching speed in the last 15° of the closing cycle. High quality hydraulic fluid with temperature compensation from -15°C to +40°C.
- Pressure die cast aluminium body with hardened and ground steel rack and pinion mechanism.
- Standard armset for regular mounting (Fig 1) and transom mounting (Fig 61) only. Parallel mount (Fig 66) bracket included. Universal handing.
- Fire tested to EN 1634-1:2000, 2 hours on timber doors. Not suitable for use on steel fire doors. Certifire Approved No CF 390.
- CE marked to EN 1154. DoP on our website.
- Maximum angle of opening with controlled closing 180°.
- Silver sprayed finish (SES) and matching armset.
- Screw thread armset manufactured from forged steel for additional strength and durability.
- Optional hold-open armset allows the arm to be held in the open position for convenience (not for use on fire door applications).



121CE

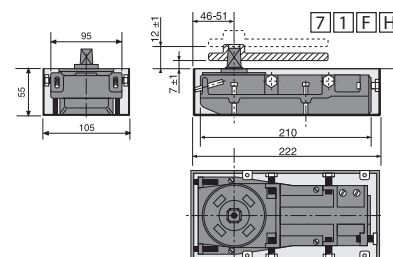
REF	SIZE	BACKCHECK	COVER	BODY FINISH	ARM FINISH	PRICE	UNIT	BOX QTY
121CE SILVER SPRAYED BODY & SILVER ARMS								
121CE-SES	3	No	None	Silver	Silver	£30.89	each	10

£18.56 extra for silver steel mechanical hold-open armset (not fire rated) #121.APH-SES.

MAB FLOOR SPRINGS

MAB 7100 SERIES - BUDGET COMPACT - WITH LOW OPENING FORCE

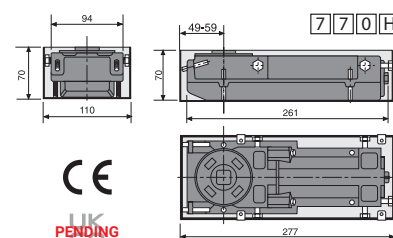
Force: One body size in three power sizes EN 1-2-3 (10,16 & 20Nm).
 Max door weight: 100kg. Door size: From 750x2100mm (Force 1) to 950x2300mm (Force 3).
 Certification: Not CE marked. No DoP. Not to be used on fire doors.
 Hydraulic control: Closing from 135° in both swings. Two independent speed valves.
 Hold-open: Standard with 90° hold-open (5); also available 105° (0).
 Cement box: Included. 105mm wide x 222mm long x 55mm deep.
 Cover plate size: 122x240mm SSS included (PSS & PB to order). Ref AC530.
 Spindle: Supplied with Italian square spindle already fitted, cannot be changed.



MAB 7100 SERIES		PRICE	UNIT	BOX QTY
7115*	Floor spring power size EN 1 with cement box, SSS cover, H/O 90°	£214.85	each	1
7125	Floor spring power size EN 2 with cement box, SSS cover, H/O 90°			
7135	Floor spring power size EN 3 with cement box, SSS cover, H/O 90°			

MAB 7700 SERIES - TOTAL ADJUSTMENT - ADJUSTABLE WITH MECHANICAL BACKCHECK

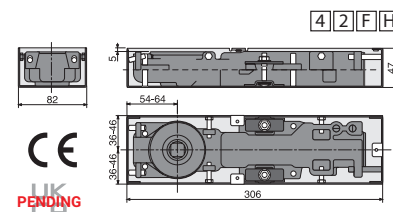
Force: Adjustable power EN 2-4 (14Nm-28Nm). With mechanical backcheck.
 Max door weight: 170kg. Door size: From 600x2000mm (Force 2) to 1100x2400mm (Force 4).
 Certification: Model 7702 without hold-open has CE conformity. DoP on our website.
 Hydraulic control: Closing from 150° in both swings. Two independent speed valves.
 Hold-open: Standard with 90° hold-open (5); also available 105° (0) or without hold-open (2).
 Cement box: Included. 110mm wide x 277mm long x 70mm deep.
 Cement box adjustment: 4° angular, 10mm longitudinal, 9mm vertical.
 Cover plate size: 129x294mm SSS included (PSS & PB to order). Ref AC534.
 Spindle: Not included; specify square Italian, square French or rectangular German on page 129.



MAB 7700 SERIES (REPLACED 7410 SERIES)		PRICE	UNIT	BOX QTY
7705	Adjustable power EN 2-4 floor spring with cement box, SSS cover, H/O 90°	£282.39	each	1
7702	Adjustable power EN 2-4 floor spring with cement box, SSS cover, no H/O			

MAB 4200 SERIES - NARROW & SHALLOW - FOR THIN SLABS

Force: One body size in three force sizes EN 2-3-4 (17,22 & 28Nm). 10Nm model to order.
 Max door weight: 100kg. Door size: From 850x2200mm (Force 2) to 1100x2400mm (Force 4).
 Certification: All models have EN 1154, version force EN 3-4 without hold-open have CE conformity. DoP on our website.
 Hydraulic control: Closing from 175° in both swings. Two independent speed valves.
 Hold-open: Standard with 90° hold-open (5); also available 105° (0) or without hold-open (2).
 Cement box: Included. 82mm wide x 306mm long x 47mm deep.
 Cement box adjustment: 10mm lateral, 10mm longitudinal, 5mm vertical.
 Cover plate size: 108x322mm SSS included (PSS & PB to order). Ref AC307.
 Spindle: Not included; specify square Italian, square French or rectangular German on page 129.

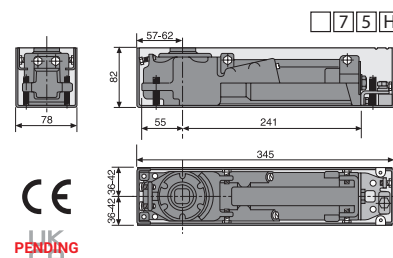


MAB 4200 SERIES		PRICE	UNIT	BOX QTY
4225*	Floor spring power size EN 2 with cement box, SSS cover, H/O 90°	£303.31	each	1
4235	Floor spring power size EN 3 with cement box, SSS cover, H/O 90°			
4245	Floor spring power size EN 4 with cement box, SSS cover, H/O 90°			
4232	Floor spring power size EN 3 with cement box, SSS cover, no H/O			
4242	Floor spring power size EN 4 with cement box, SSS cover, no H/O			

This series will be discontinued when stock is sold.

MAB 750 SERIES - THE STRONGEST - ADJUSTABLE POWER FOR LARGE HEAVY DOORS

Force: Adjustable power EN 3-6 (24Nm-60Nm). With mechanical backcheck.
 Max door weight: 300kg. Door size: From 850x2200mm (Force 3) to 1400x2500mm (Force 6).
 Certification: All models have EN 1154, version without hold-open has CE conformity. DoP on our website.
 Hydraulic control: Closing from approx 175° in both swings. Two independent speed valves.
 Hold-open: Standard with 90° hold-open (5); also available 105° (0) or without hold-open (2).
 Delayed closing: Optional extra between 175° and 80°.
 Cement box: Included. 78mm wide x 345mm long x 82mm deep.
 Cement box adjustment: 6mm lateral, 5mm longitudinal, 9mm vertical.
 Cover plate size: 103x365mm SSS included (PSS & PB to order). Ref AC269.
 Spindle: Not included; specify square Italian, square French or rectangular German on page 129.

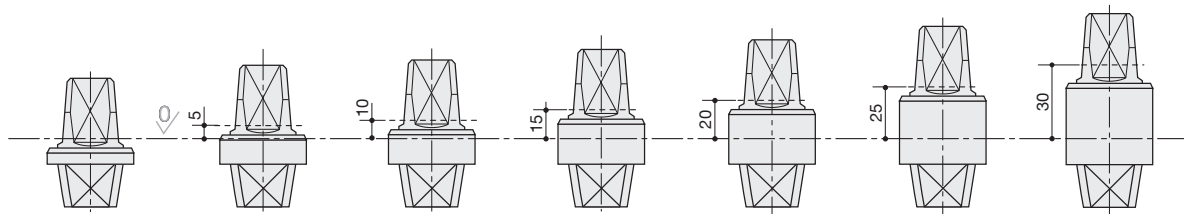


MAB 750 SERIES		PRICE	UNIT	BOX QTY
755	Heavy duty adjustable power EN 3-6 floor spring with cement box, SSS cover, H/O 90°	£447.95	each	1
752	Heavy duty adjustable power EN 3-6 floor spring with cement box, SSS cover, no H/O			

PLEASE SEE PAGES 156-157 FOR GLASS DOOR LOCKSETS AND PATCH FITTINGS

MAB FLOOR SPRING ACCESSORIES

DETACHABLE SPINDLES



	STANDARD	EXT 5MM	EXT 10MM	EXT 15MM	EXT 20MM	EXT 25MM	EXT 30MM
ITALIAN SQUARE	AC340 £9.47 each	AC341 £34.33 each	AC342 £34.33 each	AC343 £34.33 each	AC344 £42.24 each	AC345 £42.24 each	AC346 £42.24 each
FRENCH SQUARE	AC350 £11.48 each	AC351 £34.33 each	AC352 £34.33 each	AC353 £34.33 each	AC354 £42.24 each	-	-
GERMAN RECTANGULAR	AC360 £11.48 each	AC361 £34.33 each	AC362 £34.33 each	AC363 £34.33 each	AC364 £42.24 each	AC365 £42.24 each	AC366 £42.24 each



AC340

Square Italian spindle, detachable, standard height.
£9.47 each (Box Qty 10)



AC360

Rectangular German spindle, detachable, standard height.
£11.48 each (Box Qty 10)



AC115

Double action steel bottom strap, 300kg max, to suit square Italian spindle, reversible.
£26.37 each (Box Qty 1)



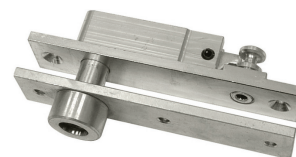
AC393

Double action steel bottom strap, 300kg max, to suit rectangular German spindle, reversible.
£26.37 each (Box Qty 1)



AC8

Double action mazak top pivot, 300kg max, adjustable.
£17.96 each (Box Qty 1)



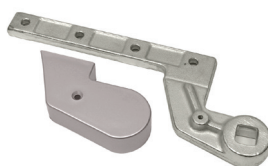
AC375

Double action steel top pivot, 300kg max, with self lubricating bushing, adjustable.
£234.98 each (Box Qty 1)



AC385

Single action steel strap, right hand, 36mm offset, 300kg max, to suit square Italian spindle, supplied with one silver plastic cover cap.
(To be replaced by AC583 non-handed version when current stocks are sold).
£53.62 each (Box Qty 1)



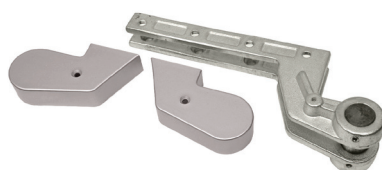
AC386

Single action steel strap, left hand, 36mm offset, 300kg max, to suit square Italian spindle, supplied with one silver plastic cover cap.
(To be replaced by AC583 non-handed version when current stocks are sold).
£53.62 each (Box Qty 1)



AC392

Single action steel strap, reversible, 36mm offset, 300kg max, to suit rectangular German spindle, supplied with two silver plastic cover caps (one used depending on hand).
£55.89 each (Box Qty 1)



AC384*

Single action steel top centre, reversible, 36mm offset, 300kg max, supplied with two silver plastic cover caps (one used depending on hand).
£150.27 each (Box Qty 1)

All floor springs can be used for left, right and double action timber, metal & glass doors.

F = FORCE

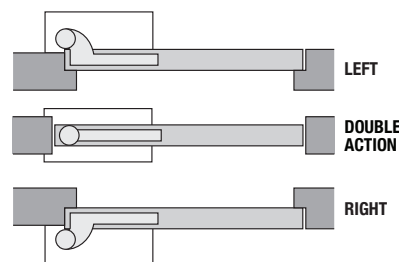
1 = 10Nm
2 = 17Nm
3 = 22Nm
4 = 28Nm
6 = 60Nm

H = HOLD-OPEN

5 = 90°
0 = 105°
2 = No hold-open

Other accessories available to order.

FULL TECHNICAL LITERATURE AVAILABLE UPON REQUEST.



MAB GATE CLOSERS WITH SLIDING ARMS

To further enhance the popular range of MAB hydraulic gate closers, a new mid-range fixed power size 2 unit has been developed and introduced. Furthermore, all three models now have an improved, reduced in size, sliding arm.

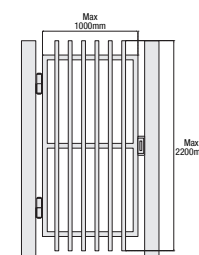
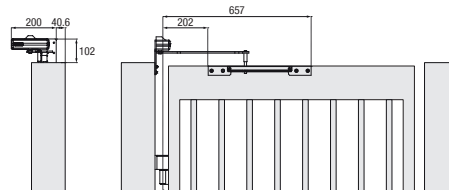
Extremely easy to install, these gate closers are particularly recommended for adding safety and security to gates. They will ensure that gates are always closed for security purposes, and also prevent toddlers and pets from exiting gates inadvertently left open. The ME620G is the base size 1 model to suit gates (without panels) up to 1000mm wide x 2200mm high, the new ME650G size 2 model suits gates (without panels) up to 1250mm wide x 2400mm high and the ME680G has the added benefit of backcheck and is power adjustable, sizes 1-3, to suit gates (without panels) up to 1400mm wide x 2800mm high. Please note these maximum sizes apply to gates comprising only rails without panels (i.e. no air resistance). **Only suitable for gates hung on hinges.**

RANGE FEATURES

- Two closing speeds independently controlled by thermostatic valves.
- Improved smaller pinch free sliding arm and rail for safe use.
- Soft opening and strong closing.
- Suitable for gates with or without protruding bars.
- Manufactured from heavy duty cast iron.

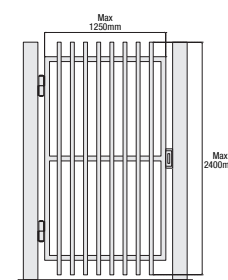
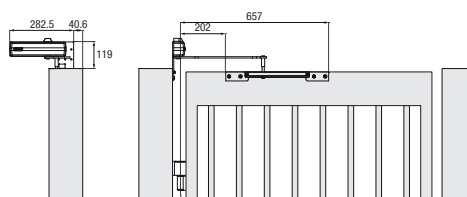
ME620G

- Fixed power size 1.
- Recommended gate size limit 1000mm wide x 2200mm high.



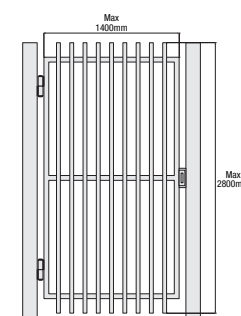
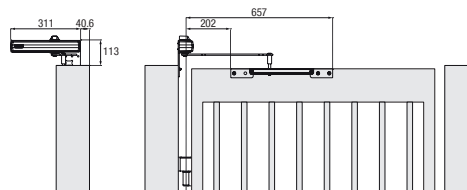
ME650G

- Fixed power size 2.
- Recommended gate size limit 1250mm wide x 2400mm high.



ME680G

- Adjustable power sizes 1-3.
- Adjustable backcheck.
- Recommended gate size limit 1400mm wide x 2800mm high.



FINISH

- Standard finish black for mechanisms, brackets, channels and sliding arms.

INSTALLATION

- All models are supplied with all mounting screws and accessories.
- No welding is necessary.

REF	POWER TYPE	POWER SIZE	FINISH	PRICE	UNIT	BOX QTY
ME620G	Fixed	1	Black	£202.77	each	4
ME650G	Fixed	2	Black	£233.82	each	4
ME680G	Adjustable	1-3	Black	£360.17	each	4

PLEASE NOTE THAT ALL SPECIALIST CLOSERS ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP. NOT FOR USE ON FIRE DOORS.

Z301 ROLLER ARM DOOR CO-ORDINATORS

Door selectors will enable a pair of self-closing doors with a security astragal on one leaf (steel doors) or rebated meeting stiles (timber doors) to close in the correct sequence automatically, no matter which door is opened first. Door selectors protect the doors during closing to ensure that the leaves close in the correct order irrespective of which side was opened or closed first. **THIS PRODUCT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DoP AND SHOULD NOT BE USED ON FIRE RATED DOORS.**

Z301 roller arm door selectors are manufactured from satin stainless steel, and are supplied complete with two rubbing plates. The standard unit is the Z301.250 which has a 250mm long arm and suits most door widths (600-1150mm). The Z301.300 and Z301.350 are available for wider door leaves, 800-1300mm and 1300-1800mm respectively. This door selector is adjustable (see diagram below). When the operational angle of the lever is not satisfactory (due to unusual door widths or any gap at the meeting stiles), the unit may be adjusted by releasing the locking screw (2), turning the adjusting screw (1), and then re-locking the locking screw (2). Warning: The unit will become damaged if the selector is set below an angle of 90°.

DOOR SELECTOR LEVER

satin stainless steel



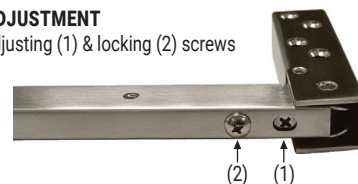
TWO RUBBING PLATES

satin stainless steel



ADJUSTMENT

adjusting (1) & locking (2) screws



REF	ARM LENGTH (CENTRES)	ARM LENGTH (OVERALL)	DOOR LEAF WIDTH	PRICE	UNIT	BOX QTY
Z301.250	250mm	275mm	600-1150mm	£39.57	each	20
Z301.300	300mm	325mm	800-1300mm	£124.21	each	4
Z301.350	350mm	375mm	1300-1800mm	£145.99	each	4

Z301.250

Door selector manufactured from satin stainless steel, complete with rubbing plates. 250mm long arm to suit door widths 600-1150mm per leaf.



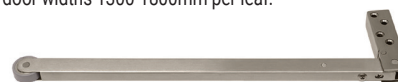
Z301.300

Door selector manufactured from satin stainless steel, complete with rubbing plates. 300mm long arm to suit door widths 800-1300mm per leaf.



Z301.350

Door selector manufactured from satin stainless steel, complete with rubbing plates. 350mm long arm to suit door widths 1300-1800mm per leaf.



Z302 GRAVITY TYPE CO-ORDINATORS

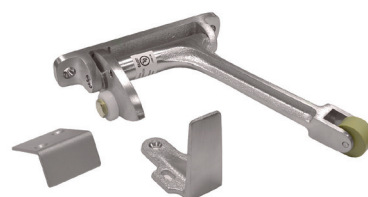
The Z302 co-ordinator is a UL Listed device used to co-ordinate the closing of pairs of doors in jamb openings of 914mm to 2642mm wide. The co-ordinator mechanism and inactive leaf brackets are cast of solid brass, satin chrome plated. The roller strike for the top of the inactive leaf is wrought stainless steel. The overall projection of the co-ordinator arm is 178mm. The roller at the end of the co-ordinator arm cushions the contact of the active leaf when it is closing. The reversible nylon roller which lifts the co-ordinator arm ensures smooth and long-lasting operation. A curved lip roller strike is supplied with all devices.

When the active and inactive leafs are open, the co-ordinator arm pivots downward, positioning the arm and rubber roller below the top of the active leaf. As the active leaf is closed it comes into contact with the arm and roller and is held open. When the inactive leaf is closed, the nylon roller on the co-ordinator mechanism comes into contact with the roller strike and lifts the projecting arm above the top of the active leaf, allowing it to close in the correct sequence. When the active leaf is in the closed position, the door bracket on the inactive leaf and the nylon roller position the co-ordinator arm above the top of the leaf allowing it to open and close freely. **ALTHOUGH THIS PRODUCT IS UL LISTED IN THE USA, IT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DoP AND SHOULD NOT BE USED ON FIRE RATED DOORS.**

- Manufactured from brass and stainless steel.
- Non-handed (reversible on site).
- Conforms to ANSI/BHMA 156.3-2008, Type 21, 21B.
- Individually boxed with fasteners and installation template.

Z302 Gravity type co-ordinator, satin chrome finish US26D

£65.70 each (Box Qty 1, outer 20)



SP81 WHEELED LEAF SELECTORS

The SP81 is a simple device that ensures a pair of double doors close in the correct sequence when they are fitted with door closers. It prevents the secondary leaf closing before the primary leaf. **THIS PRODUCT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DoP AND SHOULD NOT BE USED ON FIRE RATED DOORS.**

The arm is formed by a flat steel section of 4mm x 25mm folded in the form of a 'U' which is fixed within another 'U' of flat section measuring 4mm x 20mm. The end of each arm is fitted with a white nylon roller 30mm diameter to facilitate the selection of the door leaves. The long arm is slightly bent outwards and keeps the primary leaf ajar until the secondary leaf closes causing the small arm to lift up and releasing the primary leaf. An adjustment screw on the face of the arm adjusts the degree of the tilt. A small angle plate supplied with the selector is fitted to the top of the secondary leaf to make contact with the small arm roller when the secondary leaf is closed.

Dimensions: Overall length of the long arm, wheel included 135mm (125mm nominal).
Length of the short arm, wheel included 57mm. Width of the 'U' bracket pivots 215mm. Overall width 230mm.

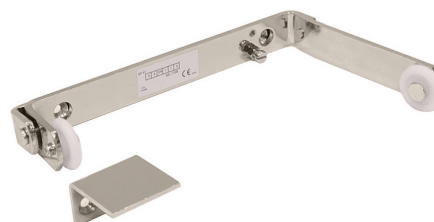
Testing: Tested to EN 1158:1997+A1:2002.

Finish: Nickel plated mild steel.

SP81/NP Wheeled leaf selector, nickel plated steel

£62.01 each (Box Qty 2)

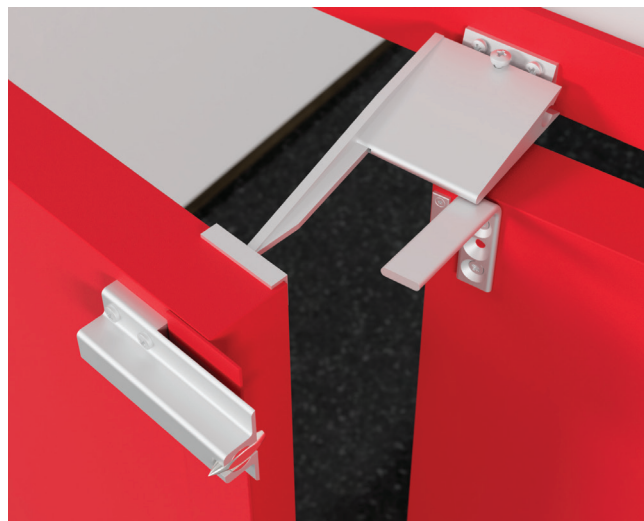
This item will be discontinued when stock is sold.



Z304 CE FIRE DOOR CO-ORDINATORS CE UKCA

Door co-ordinators, or selectors as they are sometimes called, will enable a pair of self-closing doors (i.e. fitted with door closers) with rebated meeting stiles (timber doors), security astragal (steel doors), or plain meeting stiles when both leaves are self-closing with a latchbolt, to close in the correct sequence automatically, no matter which door leaf is opened first. This is particularly important for pairs of fire/smoke rated doors and pairs of self-latching security doors which need to be kept closed.

The unique design feature of the Z304 is the surface rebate catch with patented 'toggle'. If the second opening leaf is forced open first, the toggle ensures that the first opening leaf is carried far enough open by the rebate catch to allow the adjuster arm to drop and ensure the correct closing sequence. The function of the arm is to drop down under gravity when the doors are opened and hold or "scotch" the second closing leaf until the first closing leaf has closed into the frame. The toggle at the end of the rebate catch ensures there is always a gap and that the unit works correctly. If the rebate catch is not fitted the unit may still work correctly if the second opening leaf is flung open. However if the second opening leaf is opened slowly (as a Fire Officer would do when inspecting the fire doors, or as a child might do when pushing through the doors) it is imperative that the rebate catch is fitted to avoid the possibility of the leaves binding, or closing out of sequence. **Life is at risk if the surface rebate catch is not installed.** The Z304 can be used on pairs of doors with panic bolts, but the bolts need to be positioned correctly to accommodate the co-ordinator.



FULLY TESTED TO BS EN 1158:1997, CE AND UKCA MARKED

Many other door selectors do not stand the test of time, but the Z304 which is British made has been fully tested to 1,000,000 cycles. It has been fully tested in accordance with BS EN 1158:1997 + A1:2002 and is CE, and UKCA, marked. Its CE classification in accordance with Clause 4 is **3151/31113**. It is easy to fit with full fitting instructions and fixings provided. Manufacturers 10 year guarantee. CE certificate No 1121-CPR-AF5006 and UKCA certificate No 1121-CPR-UK-AF7793 available upon request. **The surface rebate catch must be installed as tested.**

Z304.1 STANDARD SURFACE REBATE CATCH OR Z304.2 EXTENDED SURFACE REBATE CATCH?

Customers often ask us when extended surface rebate catches and/or longer arms should be used. The basic rule of thumb is that a Z304.1/102 selector with a standard surface rebate catch and 102mm arm is suitable for doors weighing up to 120kg, width of leaf between 700mm - 1000mm, leaf thickness between 38mm - 58mm, rebate size 25mm maximum and door closer size 3-5. For all other dimensions that fall outside these it may be necessary to use an extended rebate catch and a longer arm. It can also depend on what other door furniture is on the door and can lead to using a longer arm which has to be determined on site. The extended rebate catch and longer arms are certainly needed when the selector is being installed on doors wider than 1000mm. Furthermore either with a standard rebate or extended rebate catch there may be a scenario where the rebate catch hinders the effective closing of the first closing leaf. If that happens then a longer arm is required.

TIMBER DOORS AND STEEL DOORS

Suitable for timber doors of any width up to 1219mm and all standard thicknesses and rebate sizes. Also suitable for wider steel doors. For applications under difficult or unusual conditions please provide a drawing of your meeting stile and astragal detail, also door thickness and typical width, so we can confirm suitability.

DECLARATION OF PERFORMANCE

Please refer to our website for DoP No ZSSL001 (CE) and ZSSL010 (UKCA).

CORROSION

Independently successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

UL LISTING

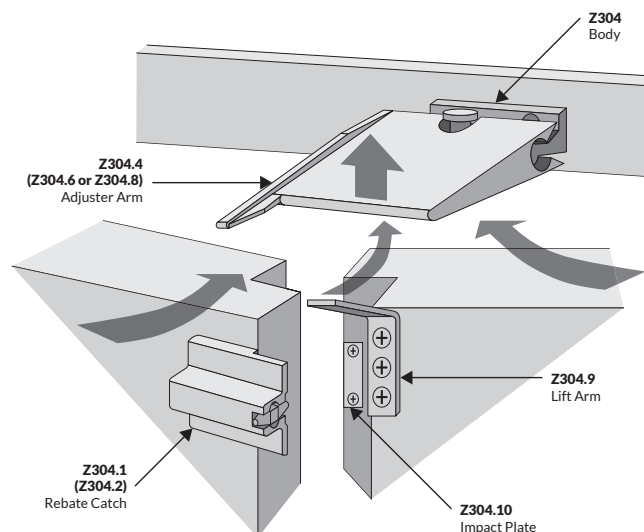
This product has been UL Listed in the US and Canada since September 2014 for use with a pair of swinging fire doors rated up to and including 4 hr incorporating an astragal or needing sequenced closing. Certificate Number 20140925-R37964. US Standard ANSI/UL 10C and Canadian Standard CAN/ULC-S104 refer. See the UL Online Certifications Directory at www.ul.com/database for additional information.

FINISHES

- Satin Anodised Aluminium (SAA)
- Simulated Plated Satin Stainless Steel Effect (SSS)
- Gold Anodised Aluminium
- Polished Chrome Effect
- Brass Effect
- Black Anodised Aluminium

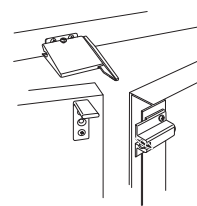
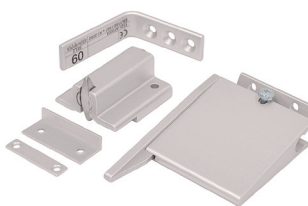
ADJUSTER ARM LENGTHS

- 102mm long (standard)
- 152mm long (for thicker/wider doors, and steel doors with astragals)
- 203mm long (for thicker/wider doors, and steel doors with astragals)



Z304.1 - WITH STANDARD REBATE CATCH

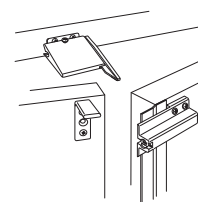
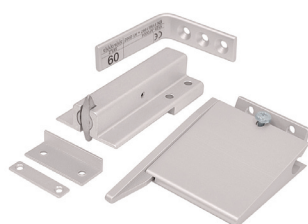
Full range details are shown on the opposite page. The Z304.1 has a standard surface mounted rebate catch to suit fire rated pairs of rebated timber doors (not illustrated) or fire rated pairs of steel doors with flat tee astragal (illustrated to the right). Prices are for complete sets but longer adjuster arms may be ordered separately.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
SILVER SATIN ANODISED ALUMINIUM (SAA)				
Z304.1/102-SAA	Selector with standard surface rebate catch and 102mm arm (fire rated)	£57.88	set	1
Z304.1/152-SAA	Selector with standard surface rebate catch and 152mm arm (fire rated)	£72.54	set	1
Z304.1/203-SAA	Selector with standard surface rebate catch and 203mm arm (fire rated)	£75.82	set	1
Z304.6-SAA	Adjuster arm only, 152mm long	£14.65	each	1
Z304.8-SAA	Adjuster arm only, 203mm long	£17.92	each	1
SIMULATED PLATED SATIN STAINLESS STEEL EFFECT (SSS)				
Z304.1/102-SSS	Selector with standard surface rebate catch and 102mm arm (fire rated)	£91.76	set	1
Z304.1/152-SSS	Selector with standard surface rebate catch and 152mm arm (fire rated)	£109.66	set	1
Z304.1/203-SSS	Selector with standard surface rebate catch and 203mm arm (fire rated)	£116.16	set	1
Z304.6-SSS	Adjuster arm only, 152mm long	£17.90	each	1
Z304.8-SSS	Adjuster arm only, 203mm long	£24.40	each	1

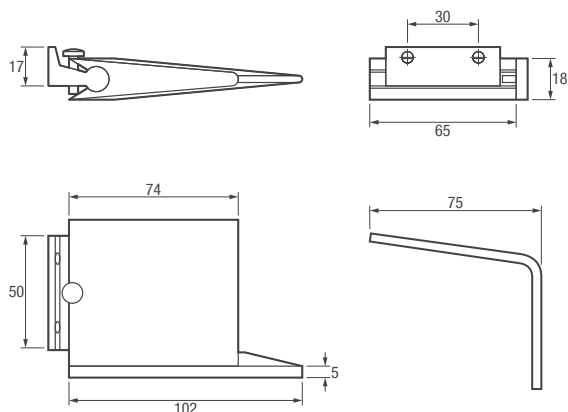
Z304.2 - WITH EXTENDED REBATE CATCH

Full range details are shown on the opposite page. The Z304.2 has an extended surface mounted rebate catch to suit fire rated pairs of steel doors with z-section cranked astragal (illustrated to the right). Prices are for complete sets but longer adjuster arms may be ordered separately.

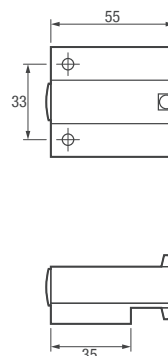


REF	DESCRIPTION	PRICE	UNIT	BOX QTY
SILVER SATIN ANODISED ALUMINIUM (SAA)				
Z304.2/102-SAA	Selector with extended surface rebate catch and 102mm arm (fire rated)	£67.19	set	1
Z304.2/152-SAA	Selector with extended surface rebate catch and 152mm arm (fire rated)	£81.83	set	1
Z304.2/203-SAA	Selector with extended surface rebate catch and 203mm arm (fire rated)	£85.10	set	1
Z304.6-SAA	Adjuster arm only, 152mm long	£14.65	each	1
Z304.8-SAA	Adjuster arm only, 203mm long	£17.92	each	1
SIMULATED PLATED SATIN STAINLESS STEEL EFFECT (SSS)				
Z304.2/102-SSS	Selector with extended surface rebate catch and 102mm arm (fire rated)	£108.51	set	1
Z304.2/152-SSS	Selector with extended surface rebate catch and 152mm arm (fire rated)	£126.40	set	1
Z304.2/203-SSS	Selector with extended surface rebate catch and 203mm arm (fire rated)	£132.90	set	1
Z304.6-SSS	Adjuster arm only, 152mm long	£17.90	each	1
Z304.8-SSS	Adjuster arm only, 203mm long	£24.40	each	1

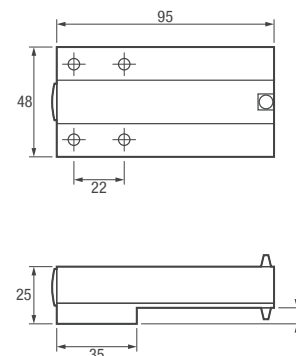
Main Body and Lift Arm



Standard Rebate Catch



Extended Rebate Catch



Z600 SERIES SOFFIT MOUNTED CO-ORDINATORS

The Z600 Series is a patented US manufactured range of soffit applied door co-ordinators designed to function in high frequency areas with minimum maintenance. This tried and tested innovative design provides a smooth, quiet, invisible, and tamper-proof means of controlling the closing sequence of the active and inactive leaves of a pair of doors fitted with self-closing devices. They are widely used on pairs of doors equipped with astragals, rebated meeting stiles, vertical rod exit devices, automatic flush bolts, and self-latching flush bolts. **ALTHOUGH THIS PRODUCT IS UL LISTED IN THE USA, IT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DOP AND SHOULD NOT BE USED ON FIRE RATED DOORS.**

The Z600 Series is designed to become an integral part of the head frame. Each set should comprise a co-ordinator mechanism and a filler bar which are mounted continuously on the soffit. Together they provide an even, unbroken line between active and inactive door hinge stops. The co-ordinator mechanism sits above the active leaf and houses the active leaf hold-open lever at one end and the inactive leaf release trigger at the other end. **This mechanism is available in five sizes but should be ordered at least 102mm longer than the width of the active leaf so that the inactive leaf release trigger comes into contact with the inactive leaf.** It is important to understand that the size of the co-ordinator mechanism is determined by the width of the active door leaf for this reason. A matching filler bar of the same profile is then supplied to sit above the inactive leaf so that the mechanism appears to run the complete width of the head frame between the hinge stops.

Units are supplied prime coat black (finish 600 PC) and can be left black or painted to match the frame. The maximum projection of the hold-open lever and trigger is only 28mm, thus the co-ordinator mechanism appear to be an integral part of the frame opening. The units are 40mm deep and only 13mm thick. They are supplied complete with two door strikes for the active leaf hold-open lever and the inactive leaf release trigger.

This co-ordinator is vandal proof and accident resistant. An adjustable shock absorption spring located in the hold-open lever allows the lever to release the active leaf if abnormal forces are applied to it while in the held-open position. This prevents damage to the door, hinges, co-ordinator, and other associated door hardware. The spring in the hold-open lever can be adjusted by a #2 Phillips screwdriver for adapting to various closing speeds, and different door weights.

Z600 Series can be used on jamb opening widths from 864mm to 3048mm with active door widths from 457mm to 1575mm. The minimum soffit width required is 32mm and maximum astragal overlap is 25mm.

An optional Carry Bar (ref CB) can be used when the inactive leaf is equipped with hardware that permits it to open before the active leaf. The Carry Bar is mounted on the inactive leaf but is not used when the inactive leaf is fitted with flush bolts. Optional mounting brackets are available for soffit applied hardware such as door closer parallel arm brackets, panic bolt strike plates etc. Bracket ref AB suits soffits 22mm - 57mm wide, and Bracket ref C suits soffits over 58mm wide.

- Non-handed.
- UL Listed, No R10849.
- 100,000 cycle tested under UL supervision.
- Certified to ANSI/BHMA 156.3-2008, Grade 1, Type 21, 21A.
- Standard finish black prime coated 600 PC.
- US28 powder coated grey available to special order.
- Supplied with fasteners and fixing instructions.
- Filler bars cut to length by customer.



REF	DESCRIPTION	MECHANISM WIDTH	MAX ACTIVE DOOR WIDTH	TOTAL OPENING WIDTH	PRICE	UNIT	BOX QTY
CO-ORDINATOR MECHANISMS (filler bars supplied separately)							
N-634*	Mechanism only, black	813mm (32")	Up to 711mm (28")	889-1371mm (35-54")	£98.99	each	4
NX-644*	Mechanism only, black	1067mm (42")	Up to 965mm (38")	1143-1371mm (45-54")	£102.29	each	4
654	Mechanism only, black	1321mm (52")	Up to 1219mm (48")	1397-2438mm (55-96")	£105.59	each	4
L-662	Mechanism only, black	1524mm (60")	Up to 1422mm (56")	2438-2845mm (96-112")	£138.53	each	4
XL-668	Mechanism only, black	1676mm (66")	Up to 1574mm (62")	2870-3048mm (113-120")	£145.19	each	4

REF	DESCRIPTION	SOFFIT WIDTH	BRACKET LENGTH	PRICE	UNIT	BOX QTY
OPTIONAL FIG 66 PARALLEL ARM MOUNTING BRACKETS & CARRY BAR						
AB	Mounting bracket, black	22-57mm (7/8"-2 1/4")	127mm (5")	£19.13	each	50
C	Mounting bracket, black	58mm+ (2 1/4"+)	127mm (5")	£19.80	each	50
600D-PC	Universal mounting bracket, black	-	197mm (7 3/4")	£18.78	each	10
CB	Carry bar, black	-	-	£30.50	each	10

REF	DESCRIPTION	FILLER BAR WIDTH	PRICE	UNIT	BOX QTY
FILLER BARS (to be cut to length by customer to suit various jamb openings)					
FB18-5/8	Filler bar only, black	473mm (18 5/8")	£16.50	each	10
FB42-5/8	Filler bar only, black	1083mm (42 5/8")	£32.68	each	10



600D Bracket



CB Carry Bar



AB Bracket



C Bracket

IMPORTANT ORDERING NOTES

Width of active leaf + width of inactive leaf = total width of opening.
Width of active leaf will determine the length of the co-ordinator mechanism.

Z3780 UNIVERSAL CO-ORDINATORS

The Z3780 Universal Co-ordinator is for pairs of doors measuring up to 2438mm wide. The long arm holds the active leaf open until the short arm is depressed by the inactive leaf. When the doors are closed, the arms are hidden by the stop-mounted aluminium case. **ALTHOUGH THIS PRODUCT IS UL LISTED IN THE USA, IT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DoP AND SHOULD NOT BE USED ON FIRE RATED DOORS.**

The Z3760 carry bar is an optional extra available for pairs of doors where the inactive leaf can be opened before the active leaf. It is mounted on the inactive leaf and is supplied in USP matt black finish as standard. The Z3780 is a one size model and suits all pairs of doors up to 2438mm wide. This new design has adjustable arm to accommodate active door only 610mm wide; simply remove the two screws from the active arm, adjust the arm to its shortest length and re-insert the screws.

- One size for all pairs of doors up to 2438mm wide with adjustable arm to accommodate 610mm active door.
- Manufactured from steel and aluminium.
- Non-handed.
- Stop mounted.
- Overall size 38mm wide x 512mm long x 15mm deep.
- Matt black finish, code USP.
- Meets ANSI A156.3, Type 21 requirements (when used with carry bar).
- Mounting brackets not required when using stop mounted hardware.
- UL Listed for use with pairs of swinging fire doors with astragal (USA only).
- Mounted to frame with six screws.
- Supplied complete with both wood screws and machine screws for timber or steel fixing.
- Not for use with exposed vertical rod panic devices.



Z3780 Universal co-ordinator, USP matt black finish.
£93.08 each (Box Qty 1, outer 10)

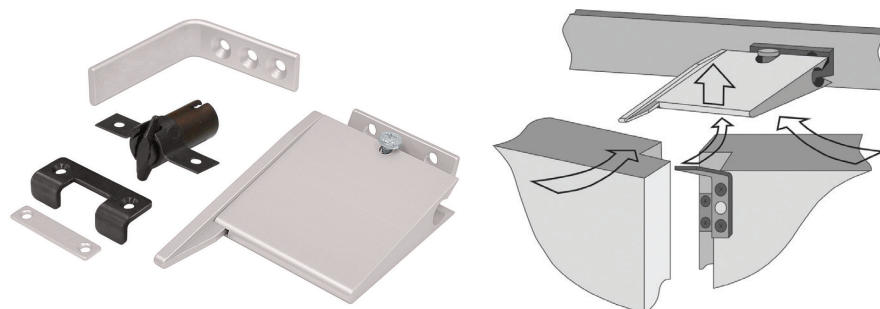
Z3760 Optional carry bar, USP matt black finish.
£27.54 each (Box Qty 1, outer 10)

Z303 WEDGE TYPE DOOR SELECTORS

The Z303 gravity door selector/co-ordinator will enable a pair of self-closing non-fire rated timber doors with rebated meeting stiles to close in the correct sequence irrespective of which door closes first. This door selector has been successfully tested to BS EN 1158:1997. Product classification **3 5 ½ 0 1 0**. **THIS PRODUCT IS NOT CE OR UKCA MARKED, DOES NOT HAVE A DoP AND SHOULD NOT BE USED ON FIRE RATED DOORS.** It is designed to be used on non-fire rated timber doors.

The standard finishes are silver anodised aluminium (SAA) and simulated plated satin stainless steel (SSS). Also available brass effect, black anodised aluminium, gold anodised aluminium and polished chrome effect to special order. Colour coated paint finishes to standard RAL colours are available to order.

- Mounted on the face of the head frame immediately above the centre of the opening.
- Supplied with tubular selector catch, lift arm, impact plates, screws and full fixing instructions.
- Fully tested to 1 million cycles.
- Supplied with standard 102mm adjuster arm. 152mm and 203mm arms also available for thicker or wider doors.
- Suitable for up to 25mm timber fully rebated doors. Suitable for timber doors of any width up to 1000mm, max weight 100kg.



REF	DESCRIPTION	SAA	SSS	UNIT	BOX QTY
Z303	Wedge type selector with tubular rebate catch to suit timber doors	£34.97	£62.77	each	1
Z304.6	Adjuster arm only, 152mm long	£14.65	£17.92	each	1
Z304.8	Adjuster arm only, 203mm long	£17.90	£24.40	each	1

SAA = SATIN ANODISED ALUMINIUM

SSS = SIMULATED PLATED SATIN STAINLESS STEEL

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

WWW.ZEROPLUS.CO.UK
TEL: +44 (0)1785 282910

ZEROPLUS LOCKCASES 7200 SERIES

7200 Series is a range of high quality heavy-duty Euro Profile lockcases, with 60mm backset and 72mm centres. Manufactured in accordance with DIN 18251 and CE marked. Modular in design meaning one door prep suits all functions. The range offers a heavy sprung stainless steel clamping follower, solid stainless steel latch & deadbolts, reversible latchbolt and a one piece stainless steel square or radius forend. The latchbolt is light sprung for easy operation and is also guided, while the deadbolt has a 20mm double throw. The existing range offers the four main functions; sashlock, deadlock, latch & nightlatch with an escape lock coming soon.

Following a recent successful fire test, we are pleased to report that the 7200 Series lockcases are now positively assessed for use in 240 minute uninsulated steel fire doors. Previously assessed for just 60 minutes, this new testing enables the complete range shown below to be installed in steel fire doors for up to a 240 minute duration to BS EN 1634-1:2000. Due to previous testing, the assessment also covers the 7200 series for use in 30 minute and 60 minute insulated timber doors, again to BS EN 1634-1:2000. Copy of EXOVA WF Assessment Report 190867 Issue 7 available on request.

A complete Zero ZLP44 intumescent lock pack (see page 72) must be used for 60 minute fire resistance on timber doors. For 30 minute timber doors the lockcase body does not need intumescent protection, but ZLP44-812 intumescent should be fitted behind the lock forend and ZLP44-675 behind the strike plate. No intumescent is required around locks or behind strike plates on steel doors.

- 60mm backset across the range, modular case size.
- 72mm centres (where applicable), euro profile.
- Tested to EN 12209:2003.
- Extra flat strike plates only £3.93 each, plastic dust boxes £1.10 each.
- One piece solid 3mm thick x 20mm or 24mm wide x 235mm long square or radius forend, as indicated.
- Suitable for use on fire/smoke resisting doorset assemblies.
- Grade 304 Stainless Steel strike plate, forend, latchbolt, deadbolt and follower.

Z7210 MORTICE SASHLOCK

Outside: Key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

Inside: Key/thumbturn operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z7210.20S	20 x 235mm	Square	£16.70	each	20
Z7210.20R	20 x 235mm	Radius			
Z7210.24S	24 x 235mm	Square			
Z7210.24R	24 x 235mm	Radius			

- 8mm bolt through fixing holes at 38mm centres.
- Heavy duty follower springing for use with unsprung furniture.
- Easily reversible latchbolt by means of pushing the latchbolt from the rear of the case.
- 11.7mm projection on latchbolt & 20mm projection on deadbolt.
- DoP's on our website.
- See lock plate security astragals on page 159 and cylinders on pages 145-147.

Z7220 MORTICE LATCH

Outside: Lever handle retracts latchbolt.

Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z7220.20S	20 x 235mm	Square	£15.98	each	20
Z7220.20R	20 x 235mm	Radius			
Z7220.24S	24 x 235mm	Square			
Z7220.24R	24 x 235mm	Radius			

Z7230 MORTICE DEADLOCK

Outside: Key operates deadbolt.

Inside: Key/thumbturn operates deadbolt.

20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z7230.20S	20 x 235mm	Square	£16.10	each	20
Z7230.20R	20 x 235mm	Radius			
Z7230.24S	24 x 235mm	Square			
Z7230.24R	24 x 235mm	Radius			

Z7250 MORTICE NIGHTLATCH

Outside: Key retracts latchbolt.

Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z7250.20S	20 x 235mm	Square	£16.58	each	20
Z7250.20R	20 x 235mm	Radius			
Z7250.24S	24 x 235mm	Square			
Z7250.24R	24 x 235mm	Radius			

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

BRITON 5400 SERIES LOCKCASES

- 60mm backset and 72mm centres in line with guidance of BS 8300.
- Dimensional co-ordination across the range to DIN 18251 means lock functions can be easily interchanged and doors can be factory prepared.
- Quick reversible latch for easy on-site handing.
- Double throw cylinder action.
- Suitable for bolt through furniture fixings at 38mm centres.

5410 MORTICE DEADLOCK

Outside: Key operates deadbolt.
Inside: Key/thumbturn operates deadbolt.
20mm double throw deadbolt.



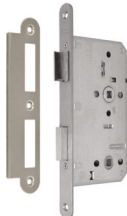
REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5410.60.S.SS*	20 x 235mm	Square	£17.73	each	15
5410.60.R.SS	20 x 235mm	Radius			

5430 MORTICE BATHROOM LOCK

Outside: Emergency release operates deadbolt.
Lever handle retracts latchbolt.
Inside: Thumbturn operates deadbolt.
Lever handle retracts latchbolt.

10mm single throw deadbolt.
Deadbolt follower 8mm as standard.

Turn and indicator sets with 5mm spindle will require a spindle conversion kit ZSC01 (see page 161).



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5430.60.S.SS*	20 x 235mm	Square	£18.14	each	15
5430.60.R.SS	20 x 235mm	Radius			

5550 MORTICE CYLINDER NIGHTLATCH

Outside: Key retracts latchbolt.
Inside: Lever handle retracts latchbolt.
Hold-back function operated by snib in the forend.
NOT CE OR UKCA MARKED.

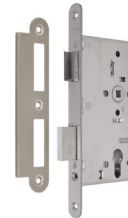


REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5550.60.S.SS*	20 x 235mm	Square	£88.98	each	15
5550.60.R.SS	20 x 235mm	Radius			

- CE marked (except 5550 nightlatch).
- Tested to EN 12209.
- EN 1634 fire testing for 1 hour timber fire doors.
- EN 1634 fire testing for 4 hour steel fire doors.
- Certifire Approved CF741.
- 5 year guarantee.

5420 MORTICE SASHLOCK

Outside: Key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
Inside: Key/thumbturn operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5420.60.S.SS*	20 x 235mm	Square	£18.56	each	15
5420.60.R.SS	20 x 235mm	Radius			

5440 MORTICE LATCH

Outside: Lever handle retracts latchbolt.
Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5440.60.S.SS*	20 x 235mm	Square	£17.60	each	15
5440.60.R.SS	20 x 235mm	Radius			

5560 MORTICE ESCAPE SASHLOCK

Latchbolt: Retracted by half set lever from inside. Outside handle to be fixed and not operate follower.
Retracted by key from outside or both sides.

Deadbolt: Operated by key from outside or both sides.

NOT TO BE USED WITH A THUMBTURN CYLINDER.

CE marked conforming to the requirements of EN 179 depending on handle used. Please note this is NOT a split follower lock so only requires a half set of levers on the inside.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
5560.60.S.SS*	20 x 235mm	Square	£120.98	each	15
5560.60.R.SS	20 x 235mm	Radius			

BRITON 5 LEVER BS LEGGE LOCKS

- CE marked & Kitemarked. 10 year guarantee.
- BS 3621:2007 + A2:2012 compliant. Tested to BS EN 12209. Grade 7.
- BS EN 1634 fire testing for 1 hour timber doors & 4 hours steel doors.
- 20mm deadbolt throw & 8mm follower.

N5641 & N5761 5 LEVER MORTICE DEADLOCKS

Deadbolt operated by key from either side.
Stainless steel square forend and matching box strike (PB to special order).
Supplied with 3 keys to differ (1,000 differs).
Forend 26 x 134mm.



REF	BACKSET	CASE DEPTH	PRICE	UNIT	BOX QTY
N5641.SS	45mm	68mm	£33.37	each	10
N5761.SS	58mm	81mm	£35.21	each	10

- 5 close gated levers with anti-pick device and 1,000 differs.
- Anti-drill plates & steel deadbolt.
- Twist reversible latch for easy site handing left or right hand.
- 13mm rebate sets available. N41 for deadlock and N42 for sashlock.

N5642 & N5762 5 LEVER MORTICE SASHLOCKS

Sashlock operated by lever handles and by key from either side.
Stainless steel square forend and matching box strike (PB to special order).
Supplied with 3 keys to differ (1,000 differs).
Forend 26 x 162mm.



REF	BACKSET	CASE DEPTH	PRICE	UNIT	BOX QTY
N5642.SS	45mm	68mm	£37.65	each	10
N5762.SS	58mm	81mm	£39.09	each	10

NEMEF LOCKCASES 6100 SERIES **PENDING**

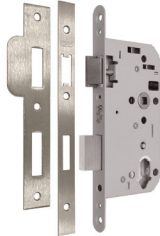
- CE Marked to BS EN 12209:2003. Refer to DoP on our website.
- Extra Heavy Duty to DIN 18251 Part 1 Class III.
- 4HR fire rated to BS 476-22:1987 on previously tested steel doors.
- 1HR fire rated to BS EN 1634-1:2000 on previously tested timber doors.
- Incredibly easy latch reversing mechanism.
- Same lockcase suits both euro & oval cylinders (except Z629/77).
- See lock plate security astragals on page 159.

Z6109 MORTICE SASHLOCK

Outside: Key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

Inside: Key/thumbturn operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6109/S	20 x 235mm	Square	£49.60	each	25
Z6109/R	20 x 235mm	Radius			

Z6105 MORTICE LATCH

Outside: Lever handle retracts latchbolt.

Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6105/S	20 x 235mm	Square	£41.35	each	25
Z6105/R	20 x 235mm	Radius			

Z6107 MORTICE NIGHTLATCH

Outside: Key retracts latchbolt.

Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6107/S	20 x 235mm	Square	£43.75	each	25
Z6107/R*	20 x 235mm	Radius			

Z6106 MORTICE NIGHTLATCH WITH HOLD BACK

Outside: Key retracts latchbolt.

Inside: Lever handle retracts latchbolt.

Latchbolt can be held by turning key in opposite direction.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6106/S	20 x 235mm	Square	£46.85	each	25
Z6106/R*	20 x 235mm	Radius			

- European 72mm centres (except bathroom 78mm) and 60mm backset.
- Heavy duty springing for unsprung lever handles.
- Solid sintered steel latchbolt and deadbolt.
- Bolt through piercings for lever furniture and security escutcheons.
- Available square (/S) or round (/R) forend (except Z629/77).
- Two piece 20 x 235mm square or radius forend (except Z629/77).
- See pages 145-147 for cylinders.

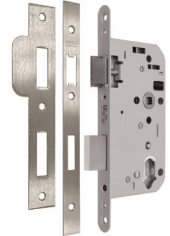
Z6102 MORTICE ANTI-PANIC LOCK

Outside: Key operates deadbolt.
Lever handle retracts latchbolt.

Inside: Lever handle retracts latchbolt and deadbolt.

Split follower lock. Handed LH or RH. Z6102 also complies to EN 179 (depending on handle used). See page 272 for handing chart.

Please note when Z6102 is used with a key and key euro profile cylinder, the key must be removed to ensure correct operation. **NOT TO BE USED WITH A THUMBTURN CYLINDER.**



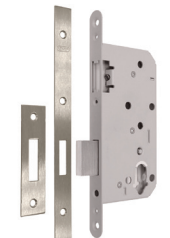
REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6102/S	20 x 235mm	Square	£112.77	each	25
Z6102/R*	20 x 235mm	Radius			

Z6108 MORTICE DEADLOCK

Outside: Key operates deadbolt.

Inside: Key/thumbturn operates deadbolt.

20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6108/S	20 x 235mm	Square	£45.90	each	25
Z6108/R	20 x 235mm	Radius			

Z6104 MORTICE BATHROOM LOCK

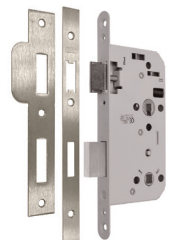
Outside: Emergency release operates deadbolt.
Lever handle retracts latchbolt.

Inside: Thumbturn operates deadbolt.
Lever handle retracts latchbolt.

20mm double throw deadbolt.

Deadbolt follower 8mm as standard.

Turn and indicator sets with 5mm spindle will require a spindle conversion kit ZSC01 (see page 161).



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6104/S	20 x 235mm	Square	£47.97	each	25
Z6104/R*	20 x 235mm	Radius			

Z629/77 MORTICE SLIDING DOOR LOCK

Outside: Key/Lever handle operates hookbolt.

Inside: Key/Lever handle operates hookbolt.

Anti lift feature. 24x235mm one piece square forend only. Complete with keep plate. (Alternative sliding door lockcase on page 143). Not available radius forend.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z629/77/S	24 x 235mm	Square	£116.00	each	20

NEMEF LOCKCASES 6600 SERIES **PENDING**

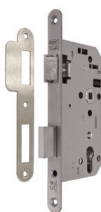
- CE Marked to BS EN 12209:2003. Refer to DoP on our website.
- Heavy Duty to DIN 18251 Part 1 Class III.
- Heavy duty project lock, non-handed.
- Zinc plated lockcase.
- Easily reversible latchbolt.
- See lock plate security astragals on page 159.

Z6602/31 MORTICE SASHLOCK

Outside: Key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

Inside: Key/thumbturn operates latchbolt and deadbolt.
Lever handle retracts latchbolt.

20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6602/31	20 x 235mm	Radius	£36.84	each	25

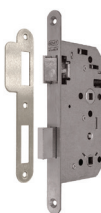
Z6642/31 MORTICE BATHROOM LOCK

Outside: Emergency release operates deadbolt.
Lever handle retracts latchbolt.

Inside: Thumbturn operates deadbolt.
Lever handle retracts latchbolt.

Deadbolt follower 8mm as standard.

Turn and indicator sets with 5mm spindle will require a spindle conversion kit ZSC01 (see page 161).



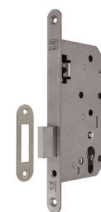
REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6642/31	20 x 235mm	Radius	£36.85	each	25

- European 72mm centres (except bathroom 78mm) and 60mm backset.
- Suits euro profile cylinder only.
- One piece 20x235mm radiused forend (fixed).
- Die cast nickel plated bolts (not fire rated).
- Steel clamping follower 8mm.
- See pages 145-147 for cylinders.

Z6622/31 MORTICE DEADLOCK

Outside: Key operates deadbolt.

Inside: Key/thumbturn operates deadbolt.
20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
Z6622/31	20 x 235mm	Radius	£35.47	each	25

NEMEF PANIC LOCKS

Z699 PANIC LOCK WITH AUTO DEADLOCKING

Z699 is a heavy-duty panic lock with an Auto Deadlocking function. Every time the door is closed and the latchbolt operates with the snib depressed the deadbolt automatically shoots out and locks the door, no further action by key or turn is required. Often used in hotels, apartments etc. From the inside all that is used is a half set of levers that when depressed withdraws the latchbolt and the deadbolt, so no cylinder / turn is required on the inside. This provides the panic option. From the outside all that is used is a single cylinder so when the key is turned it withdraws both the deadbolt and the latchbolt. No levers are required on the outside. Suits all standard Euro profile cylinders. The 699 is handed so please specify Left Hand Figure 3 Open Out or Right Hand Figure 4 Open Out when ordering. See page 272 for handing chart.

- Conforms to DIN 18251.
- Conforms to EN 179 (depending on handle used).
- European style 72mm centres, 60mm backset and 8mm follower.
- 20x235mm Stainless Steel radiused forend.
- Galvanised steel case.
- See lock plate security astragals on page 159.

REF	DESCRIPTION	HANDING	PRICE	UNIT	BOX QTY
Z699 FIG 3	Panic lock with auto deadlocking	Fig 3 LH	£276.64	each	25
Z699 FIG 4	Panic lock with auto deadlocking	Fig 4 RH			



Z1769/56 PANIC LOCK WITH 9MM SPLIT FOLLOWER

When using the Z1769/56, door furniture with a split spindle is required. In unlocked position, the latch bolt is operated from both sides by lever handle/key action. In the locked position, the inside lever handle retracts latch and dead bolt simultaneously. The outside lever handle retracts latch bolt only. The dead bolt is operated by cylinder key.

Please note when Z1769 lockcases are used with a key and key euro profile cylinder, the key must be removed to ensure correct operation. **NOT TO BE USED WITH A THUMBTURN CYLINDER.**

- Conforms to DIN 18251.
- Conforms to EN 179 (depending on handle used).
- European style 72mm centres, 65mm backset and 9mm follower.
- DoP available on our website.
- 24x235mm Stainless Steel radiused forend.
- Galvanised steel case.
- See lock plate security astragals on page 159.
- Refer to page 272 for handing diagram.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z1769/56	Panic lock with split follower, Fig 3 or Fig 4	£92.89	each	25
ZP1769/66	Strike plate, Fig 3 or Fig 4	£5.68	each	25
ZSS01	8 x 8 x 100mm split spindle	£6.39	each	10
ZSC02	8mm to 9mm conversion sleeve (2 off req)	£1.47	each	10
Z903.4-SSS	Lever handles on roses (set)	£10.62	set	1
Z904.4E-SSS	Euro profile cylinder roses (2 off req)	£1.71	each	20
Z912.70	Euro profile double cylinder, 3 keyed	£11.36	each	10



PENDING

NEMEF MULTI-POINT LOCKS

The Nemef Z1749/09/42 and Z1749/47/42 are heavy-duty multi-point locks tailored for steel doors. Requiring minimum preparation they are of an easy to construct modular design consisting of a European style central sashlock with a one-piece radius forend. The steel rods just simply click into place onto the sashlock and join the upper and lower hardened steel swing bolt deadlocks. The rods are secured either end by a screw that allows adjustment. The swing bolts have a one-piece radiused mild steel forend which is zinc plated. Standard rod length supplied is 629mm but longer rods are available.

These locks are handed so please specify either Left Hand Figure 3 Open Out or Right Hand Figure 4 Open Out when ordering (see page 272).

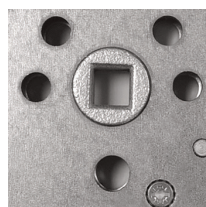
- 24 x 235mm radiused forend to sashlock.
- 24mm double throw steel deadbolt.
- Galvanised steel case.
- Meets the requirements of DIN 18250.
- European style central sashlock with 72mm centres.
- 65mm backset & 9mm follower.
- See lock plate security astragals on page 159.

NEMEF STANDARD FOLLOWER MULTI-POINT LOCK Z1749/09/42

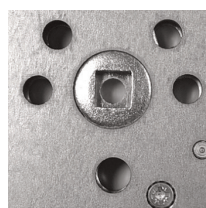
The central lock case has a one-piece 9mm follower and the operation is like a standard lock. The latchbolt is withdrawn by lever handles from either side and/ or key from the outside. All deadbolts are operated simultaneously by cylinder key or thumbturn. This lock is handed so please specify either Fig 3 Left Hand Open Out or Fig 4 Right Hand Open Out when ordering. Please refer to page 272 for handing diagram. Strike plates are available but are supplied separately. If using lever handles with an 8mm spindle you will require a follower sleeve (ref ZSC02) to convert to 9mm, see page 161 for details.

REF	DESCRIPTION	PRICE	UNIT
Z1749/09/42 FIG 3	Fig 3 left hand open out, without strike plates	£244.96	each
Z1749/09/42 FIG 4	Fig 4 right hand open out, without strike plates	£244.96	each
Z1749/SP	Strike plate kit (3 plates)	£25.37	kit
ZSC02	Follower sleeve, 8mm to 9mm	£1.47	each

Fig 1 same as Fig 3, Fig 2 same as Fig 4.



STANDARD FOLLOWER



SPLIT FOLLOWER
(forend stamped PANIK)

NEMEF SPLIT FOLLOWER MULTI-POINT PANIC LOCK Z1749/47/42

The central lock case has a two-piece split 9mm follower and the operation is different to the Z1749/09/42 above. The inside lever handle retracts the latchbolt and deadbolt simultaneously. Outside key activation deadbolts, outside lever handle retracts latchbolt. This lock is handed so please specify either Fig 3 Left Hand Open Out or Fig 4 Right Hand Open Out when ordering. Please refer to page 272 for handing diagram. Strike plates are available but are priced and supplied separately.

Please note when Z1749/47/42 is used with a key and key euro profile cylinder, the key must be removed to ensure correct operation. **NOT TO BE USED WITH A THUMBTURN CYLINDER.**

REF	DESCRIPTION	PRICE	UNIT
Z1749/47/42 FIG 3	Fig 3 left hand open out, without strike plates	£244.48	each
Z1749/47/42 FIG 4	Fig 4 right hand open out, without strike plates	£244.48	each
Z1749/SP	Strike plate kit (3 plates)	£25.37	kit
ZSC02	Follower sleeve, 8mm to 9mm	£1.47	each
ZSS01	8x100mm split spindle	£6.39	each

See page 161 for spindles and follower sleeves.

Split follower lock only available Fig 3 and Fig 4.

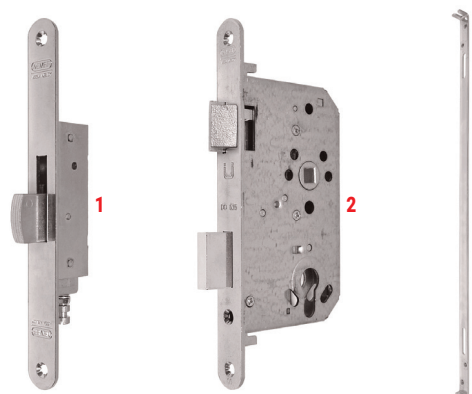
Not available Fig 1 and Fig 2.

Latchbolt not reversible.

NEMEF LINK BARS

The standard link bar supplied with these locks is 629mm long. Other sizes are available as follows:

REF	DESCRIPTION	PRICE	UNIT
Z1749/LINKBAR/629	629mm link bars (if ordered separately)	£16.65	each
Z1749/LINKBAR/689	689mm link bars	£16.96	each
Z1749/LINKBAR/754	754mm link bars	£19.44	each
Z1749/LINKBAR/879	879mm link bars	£20.11	each



HEAVY DUTY MULTI-POINT LOCK NEW

The Z415G is a heavy duty multi-point lock for steel doors. It features 15 geometrical locking points for enhanced attack resistance, plus an extended bolt throw of 42mm. The Z415G's heavy-duty structure, having a central lock case of 280mm x 111mm, and geometric locking feature, are empowering assets to any tough, well-built steel door. Unlike most conventional multi-point locks just offering various locking points along the leading edge of the door, the Z415G also has locking points across the head and along the bottom of the door. These extra locking points, along with the upper and lower main lock bodies, are operated by fully concealed adjustable rods.

The main central lock body has a patented cogwheel mechanism that is compatible with cam cylinders and enables the large 42mm bolt throw with only two full key turns (720°). In addition, this special multi-point lock accommodates two cylinders, for extra protection and advanced lockout capabilities. However, just one cylinder can be used if preferred, reducing the system to 14 locking points. Also, the main central lock can be purchased as a standalone item, POA.

APPLICATION

For increasing attack resistance in steel doors. Consisting of central lock, connecting rods and upper and lower locks. Each rod is easily adjustable from 850mm to 1030mm, and positively fixed to the central lock. The upper and lower locks attach to the rods using a lever and connector method. Rod guides and a full set of strike plates complete the system. Compatible euro profile cylinders can be found on pages 145-147, with our lever handles and escutcheons found on page 160.

FEATURES

- 4 smart key-turns, 42mm bolt throw
- 15 locking bolts
- Geometrical locking
- Double cylinder operation
- Cogwheel central locking mechanism
- Dead-bolt latch when locked
- Positive screw fixed rods
- Operated by Euro profile cam cylinders
- Easily reversible latch bolt
- Tested to the requirements of EN 12209

LOCK SET INCLUDES

- Central lock
- Top and bottom locks
- Adjustable rods
- Rod guides
- Counter strikes
- Installation instructions

SPECIFICATIONS

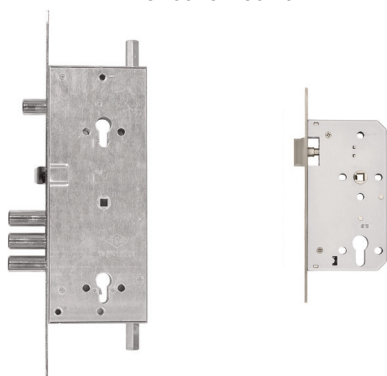
- Handle operation
- Latch - Ø20mm
- Backset - 65mm
- Bolt throw - 42mm
- Minimum door height - 1950mm
- Maximum door height - 2120mm

FINISH

- Bolts, forends and strikes - Chrome nickel plated steel
- Lock cases - Galvanised steel

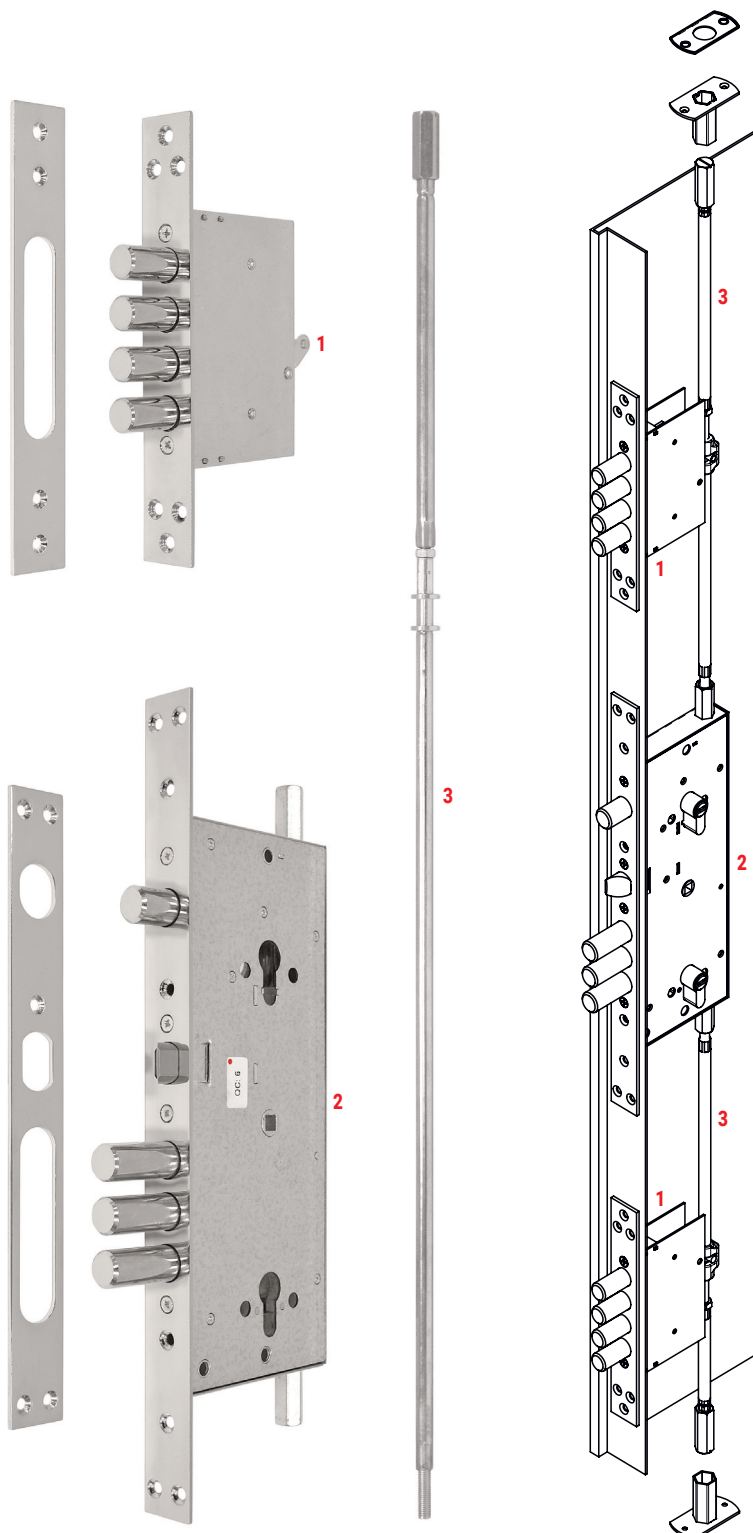
REF	DESCRIPTION	PRICE	UNIT
Z415G	Heavy duty multi-point lock Complete system including locks, rods, guides and strikes	£513.36	each

LARGE CONSTRUCTION



Z415G CENTRAL LOCK

Z7200 SERIES LOCK



NEMEF NARROW STILE LOCKS 9600 SERIES

Narrow stile lockcases have been specially developed for use on box section aluminium, steel and synthetic doors. All patterns have the same lock dimensions and fit in the same cut-out, except Z9645 small case deadlock.

- Modular case size 199mm high (Z9645 104mm high).
- Zinc plated case, polished nickel bolts.
- Reversible latch bolt except anti-panic lock.
- 8mm follower.
- 45mm backset range available from stock.
- 25mm, 30mm, 35mm & 40mm backset also available as shown below.

Z9605 NARROW STILE MORTICE SASHLOCK

Latchbolt: Retracted by lever handle/key from both sides.

Deadbolt: Operated by key/thumbturn from both sides.

£52.21 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
Z9601*	25mm	40mm
Z9602	30mm	45mm
Z9603	35mm	50mm
Z9604*	40mm	55mm
Z9605	45mm	60mm



Z9635 NARROW STILE MORTICE NIGHTLATCH

Latchbolt: Retracted by lever handle from inside.

Retracted by key from outside.

£44.16 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
Z9631*	25mm	40mm
Z9632*	30mm	45mm
Z9633*	35mm	50mm
Z9634*	40mm	55mm
Z9635	45mm	60mm



Z9655 NARROW STILE MORTICE DEADLOCK (TRADITIONAL DEADBOLT)

Deadbolt: Operated by key/thumbturn from both sides.

£36.77 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
Z9651*	25mm	40mm
Z9652*	30mm	45mm
Z9653	35mm	50mm
Z9654*	40mm	55mm
Z9655	45mm	60mm



Z9675-1 NARROW STILE MORTICE ANTI-PANIC LOCK (ONE-PIECE FOLLOWER)

Latchbolt: Retracted by half set lever from inside. Outside handle to be fixed and not operate follower.

Deadbolt: Operated by key from both sides.

NOT TO BE USED WITH A THUMBTURN CYLINDER.

£81.74 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
-	-	-
Z9672-1*	30mm	45mm
Z9673-1*	35mm	50mm
Z9674-1*	40mm	55mm
Z9675-1*	45mm	60mm



PENDING

Z9625 NARROW STILE MORTICE LATCH

Latchbolt: Retracted by lever handle from both sides.

£40.28 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
Z9621*	25mm	40mm
Z9622*	30mm	45mm
Z9623*	35mm	50mm
Z9624*	40mm	55mm
Z9625	45mm	60mm



Z9645 NARROW STILE MORTICE DEADLOCK (SMALL CASE)

Deadbolt: Operated by key/thumbturn from both sides.

£69.45 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
Z9641*	25mm	40mm
Z9642*	30mm	45mm
Z9643*	35mm	50mm
Z9644*	40mm	55mm
Z9645	45mm	60mm



Z9665 NARROW STILE MORTICE DEADLOCK (PIVOT/SWING DEADBOLT)

Deadbolt: Operated by key/thumbturn from both sides.

£50.27 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
-	-	-
Z9662*	30mm	45mm
Z9663*	35mm	50mm
Z9664*	40mm	55mm
Z9665	45mm	60mm



Z9675-2 NARROW STILE MORTICE ANTI-PANIC LOCK (SPLIT TWO-PIECE FOLLOWER)

Lever handle both sides with split spindle allowing independent operation.

Latchbolt: Retracted by half set lever from inside. Outside handle to be fixed and not operate follower.

Deadbolt: Operated by key from both sides.

Handed - advise whether Fig 1/4 or Fig 2/3 when ordering.

NOT TO BE USED WITH A THUMBTURN CYLINDER.

£81.74 each (Box Qty 10)

REF	BACKSET	CASE DEPTH
-	-	-
Z9672-2*	30mm	45mm
Z9673-2*	35mm	50mm
Z9674-2*	40mm	55mm
Z9675-2	45mm	60mm



PENDING

STAINLESS STEEL STRIKE PLATES (SUPPLIED SEPARATELY)

P635/17

Strike plate for latch, square.

£5.05 each



P636/17

Strike plate for deadlock, square.

£6.72 each



P1205/17*

Strike plate for pivot deadbolt, square.

£54.89 each



P9600/17

Strike plate for 2-bolt sashlock and anti-panic lock, square.

£17.72 each



STAINLESS STEEL LOCKCASES

Locks manufactured entirely from stainless steel, right down to the smallest components. Suitable for use on doors in clean rooms, food industry, pharmaceuticals, electronics industry etc. Also suitable for external and damp environments. Euro profile cylinders supplied separately, see pages 145-147.

These locks are manufactured from Grade 304 stainless steel as standard.

Lockcase depth: 80mm.
Backset: 50mm, other backsets available to special order.
Centres: 72mm.
Follower: 8mm.
Forend size: 20 x 235mm radius forend.

Deadbolt throw: 11mm x 2 (double throw).
Strike plate: Strike plates supplied separately to lock case (see below).
Hanging: NOT handed - latchbolt reversible with screwdriver.
CE Marking: Please note these locks have no CE or UKCA mark and do not have a DoP.

199050-8 MORTICE SASHLOCK

Outside: Key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
Inside: Key/thumbturn operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
199050-8	20 x 235mm	Radius	£146.14	each	1

199053 MORTICE BATHROOM LOCK

Outside: Emergency release operates deadbolt.
Lever handle retracts latchbolt.
Inside: Thumbturn operates deadbolt.
Lever handle retracts latchbolt.
20mm throw deadbolt.
Deadbolt follower 8mm as standard.
Turn and indicator sets with 5mm spindle will require a spindle conversion kit ZSC01 (see page 161).



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
199053	20 x 235mm	Radius	£152.49	each	1

199055 MORTICE LATCH

Outside: Lever handle retracts latchbolt.
Inside: Lever handle retracts latchbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
199055	20 x 235mm	Radius	£122.47	each	1

199056 MORTICE SASHLOCK

Outside: Construction key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
Inside: Construction key operates latchbolt and deadbolt.
Lever handle retracts latchbolt.
20mm double throw deadbolt.
Please note very limited differs (12), therefore not suitable if security is required. Designed for site construction keying only.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
199056	20 x 235mm	Radius	£154.04	each	1

199057 MORTICE DEADLOCK

Outside: Key operates deadbolt.
Inside: Key/thumbturn operates deadbolt.
20mm double throw deadbolt.



REF	FOREND SIZE	FOREND TYPE	PRICE	UNIT	BOX QTY
199057	20 x 235mm	Radius	£132.87	each	1

199051 STRIKE PLATE

Stainless steel strike plate to suit sashlock. Radius corners.
£11.43 each (Box Qty 1)



199042 STRIKE PLATE

Stainless steel strike plate to suit latch. Radius corners.
£8.26 each (Box Qty 1)



199043 STRIKE PLATE

Stainless steel strike plate to suit deadlock. Radius corners.
£8.26 each (Box Qty 1)



Please see page 160 for compatible stainless steel lever handles with stainless steel inner fixing roses and concealed covers.

ANCILLARY LOCKS

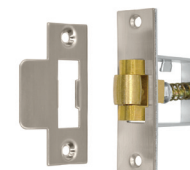
Z702/SDL

Mortice sliding door lockcase with claw hook bolt.
To suit euro cylinder.
50mm backset.
66mm deep case.
22 x 168mm polished nickel one-piece radius forend.
Complete with radius strike plate.
£32.86 each (Box Qty 25)



Z825

Heavy duty adjustable mortice ball catch.
40mm deep case.
Satin stainless steel finish forend and strike.
£15.02 each (Box Qty 10)



PLEASE NOTE THAT ALL SPECIALIST LOCKS ON THIS PAGE ARE NOT CE OR UKCA MARKED AND DO NOT HAVE A DoP.

PRIVACY DOOR LATCH

NEW

The ZPDL privacy door latch is designed for applications with corridor to interior openings, such as hotels, student accommodation and apartment blocks. The ZPDL allows occupiers to establish safely and easily who is at the door before opening it fully and allowing access.

The easy swing motion not only makes operation quick and effective, but also means the unit will not interfere with the normal operation of the door. It also prevents damage of the door and frame caused by the door slamming against a traditional sliding chain privacy device. Furthermore, the silicone pads mounted on the device afford even further door protection, and a silent operation.

FEATURES

- Easy to operate
- Enhanced in-room privacy
- Silent operation
- Helps to prevent door kick in
- Easy to install
- For new build or retrofit applications
- Cannot be used to hold door open
- Prevents possible door & frame damage found with traditional sliding chains

APPLICATIONS

- Hotels
- Apartments
- HMO's
- Student accommodation
- Private residences

OPERATION

Once installed the ZPDL sits in the closed, flush, position meaning the door can be opened and closed as normal without any need to touch the unit. Upon the requirement to restrict access into the room, a simple push on the top of the unit is all that is required to open the arm and swing it across the door face, therefore stopping the door being fully opened from the outside. To then allow access, again the arm is simply pushed on the top to swing it back into the flushed closed position.

FINISHES

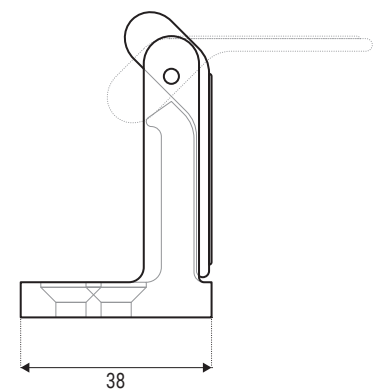
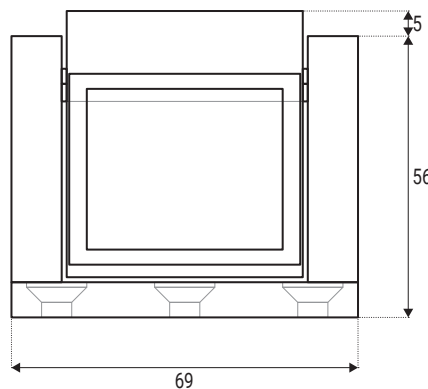
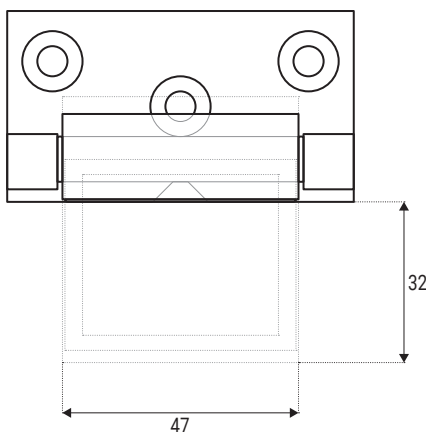
Offering much improved aesthetics for this product type, the ZPDL is manufactured from zinc die cast material and is available from stock in satin chrome finish (US26D) but is also available in satin brass (US4), oil rubbed bronze (US10B) and black powder coat to special order. Fixing screws supplied.



DOOR CLOSED



DOOR OPEN



REF	DESCRIPTION	PRICE	UNIT
ZPDL	Privacy door latch, US26D satin chrome plated zinc die cast	£39.69	each

BREAKSECURE 3DS ULTIMATE SECURITY CYLINDERS

In response to the increase in break ins due to cylinder attack, TS007 was produced by the Door and Hardware Federation and the Glass and Glazing Federation to provide a level of security for replacement cylinders comparable to that specified in BS 3621 and PAS 24. Cylinders which are tested to and comply with TS007 carry the one-star (supplementary security hardware required) or three-star (no additional security hardware required) rating, and if they have also been third party accredited by the British Standards Institute, they carry the Kitemark.

Having been tested to TS007 3*, BS EN 1303:2015 and SS312 Diamond Standard, the Breaksecure 3DS is therefore also endorsed by Secured by Design, the police preferred specification. It sets a new standard of defence against break ins, offering extra peace of mind to the end user. Furthermore, the 3DS has a 10 year guarantee.

BREAKSECURE 3DS FUNCTIONALITY

- Internal clutch operating the stopper pin prevents any access from the external side once snapped.
- Spring action prevents the return of the clutch meaning there is no access from the external side.
- After snapping, upon insertion of the key on the internal side, the block pin is moved to allow the axis to operate the cam.
- Split Cam - proving more resistance against the breaking of the cylinder.
- 11 Pin technology.
- Patent protected until 2036.
- Peace of mind - fit and forget.

Patent protected dimple keys

To ensure maximum level of security on your keys



Tested
TS007 3* and SS312
Diamond Standard

Sacrificial end

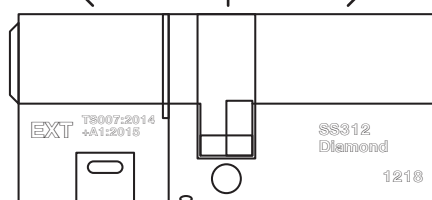
Designed to snap to protect against the most common form of entry through your door

Bump resistant

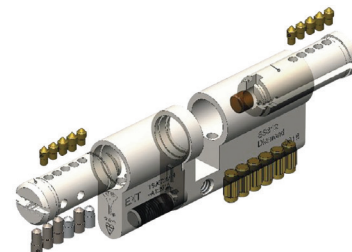
Many cylinders can be easily 'bumped' - inserting and tapping an illegal key to release the cam and open the door. Breaksecure 3DS is proven to resist this

Drill resistant

Engineered using high strength materials and robust construction to withstand prolonged drilling



Key or thumb turn
Will still operate internally after the cylinder has been attacked



CERTIFICATION

- Tested to the highest requirements of BS EN 1303:2015.
- Master Locksmith Association tested to meet the SS312 Sold Secure Diamond Standard.
- TS007 3* testing exceeded required expectations.
- Secured by Design endorsed.
- 10 year guarantee.

FEATURES

- Single, double and cylinder with thumbturn options available.
- Multiple body and offset sizes available.
- Drill resistant.
- Anti-Snap, Anti-Pick, Anti-Drill and Anti-Bump.
- Split cam.
- Euro profile as standard.

These high security cylinders are supplied standard differ with 2 keys per cylinder. However keying alike and extra keys are both optional. Standard configurations of single, double and cylinder with thumbturn are available. They are a dual finish of nickel plated body and brass plug. If ordering a cylinder and turn, the standard turn profile is circular.

REF	LENGTH MM	DESCRIPTION	FINISH	PRICE	UNIT
Z3DSES48	48	Euro profile single cylinder	NP/B	£47.99	each

REF	LENGTH MM	DESCRIPTION	FINISH	PRICE	UNIT
Z3DSED72	72 (36/36)	Euro profile double cylinder	NP/B	£61.84	each
Z3DSED82	82 (41/41)	Euro profile double cylinder	NP/B	£67.63	each
Z3DSED92	92 (46/46)	Euro profile double cylinder	NP/B	£72.73	each

Further lengths, including offsets, are available subject to lead-time. Please call for details.

REF	LENGTH MM	DESCRIPTION	FINISH	PRICE	UNIT
Z3DSET72	72 (36/36)	Euro profile cylinder & turn	NP/B	£76.37	each
Z3DSET82	82 (41/41)	Euro profile cylinder & turn	NP/B	£78.55	each
Z3DSET92	92 (46/46)	Euro profile cylinder & turn	NP/B	£85.51	each

Further lengths, including offsets, are available subject to lead-time. Please call for details.

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

Secured by Design



Police Preferred Specification



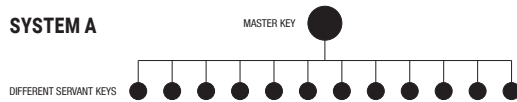
WWW.ZEROPLUS.CO.UK
TEL: +44 (0)1785 282910

ZEROPLUS MASTER KEYED CYLINDERS

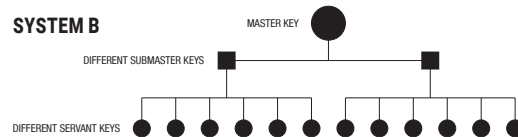
The **ZEROplus** range of 6 pin master keyed cylinders is a restricted profile cylinder system. The cylinders can be supplied master keyed (for suites up to 4,000 differs), keyed alike and standard differ. Body shapes available include euro profile, oval profile, rim cylinder and rim mortice. Standard configurations of single cylinder, double cylinder, cylinder and turn, single turn and double turn. The standard turn supplied is elliptical but other shapes are available to order including oval, nylon, and accessible turns. When ordering an offset cylinder and turn, please make it clear which side the turn is to be fitted by adding a "T" after the size, e.g. EK3540T. The standard finish is SCP (satin chrome plated), but polished brass cylinders are available at extra cost. Standard differ cylinders are supplied 2 keyed each and master keyed cylinders are supplied 2 keyed each. All cylinders have anti-pick protection.

If additional suited cylinders to a system are ordered more than twelve months after the system was originally supplied there will be a surcharge of £19.19 per cylinder if less than 21 cylinders are ordered. There will be no surcharge if more than 21 additional cylinders are ordered, or if any quantity is ordered within twelve months of the original system being supplied. For any order of less than 21 cylinders there will be a carriage charge of £24.02 net, to cover factory delivery plus our own standard carriage terms as detailed on page 2.

SYSTEM A



SYSTEM B



REF	LENGTH MM	DESCRIPTION	FINISH	-SDNR STANDARD DIFFER 2 KEYED NON- RESTRICTED	-SDR STANDARD DIFFER 2 KEYED RESTRICTED	-KAR KEYED ALIKE 2 KEYED RESTRICTED	-MKR MASTER KEYED 2 KEYED RESTRICTED
ES40*	40 (30/10)	Euro profile single cylinder	SCP	£19.10	£24.38	£24.38	£25.91
ES45*	45 (35/10)	Euro profile single cylinder	SCP	£19.10	£24.38	£24.38	£25.91
ES50*	50 (40/10)	Euro profile single cylinder	SCP	£23.14	£28.16	£28.16	£29.92
ES55*	55 (45/10)	Euro profile single cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ES75*	75 (65/10)	Euro profile single cylinder	SCP	£39.26	£43.33	£43.33	£46.04
OS45*	45 (35/10)	Oval single cylinder	SCP	£22.17	£41.43	£41.43	£44.02
ED3030*	60 (30/30)	Euro profile double cylinder	SCP	£32.81	£37.27	£37.27	£39.60
ED3535*	70 (35/35)	Euro profile double cylinder	SCP	£32.81	£37.27	£37.27	£39.60
ED3540*	75 (35/40)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED4040*	80 (40/40)	Euro profile double cylinder	SCP	£37.21	£41.45	£41.45	£44.05
ED3545*	80 (35/45)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED3550*	85 (35/50)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED4045*	85 (40/45)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED4545*	90 (45/45)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED4050*	90 (40/50)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED4555*	100 (45/55)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
ED5050*	100 (50/50)	Euro profile double cylinder	SCP	£39.26	£43.33	£43.33	£46.04
OD3535*	70 (35/35)	Oval double cylinder	SCP	£39.18	£55.67	£55.67	£59.16
OD4040*	80 (40/40)	Oval double cylinder	SCP	£50.63	£67.76	£67.76	£71.99

Other lengths available for euro profile in 5mm increments up to 60/60.

EK3030T*	60 (30/30)	Euro profile cylinder & turn	SCP	£32.81	£37.27	£37.27	£39.60
EK3535T*	70 (35/35)	Euro profile cylinder & turn	SCP	£32.81	£37.27	£37.27	£39.60
EK3540T*	75 (35/40)	Euro profile cylinder & turn	SCP	£39.26	£43.33	£43.33	£46.04
EK4035T*	75 (40/35)	Euro profile cylinder & turn	SCP	£39.26	£43.33	£43.33	£46.04
EK4040T*	80 (40/40)	Euro profile cylinder & turn	SCP	£37.21	£41.45	£41.45	£44.05
OK3535T*	70 (35/35)	Oval cylinder & turn	SCP	£39.18	£55.67	£55.67	£59.16
OK4040T*	80 (40/40)	Oval cylinder & turn	SCP	£46.52	£62.26	£62.26	£65.03

Other lengths available for euro profile in 5mm increments up to 60/60.

Elliptical turn supplied as standard but other shape turns available to order.

ESK40*	40 (30/10)	Euro profile single cylinder with turn, no keys	SCP	£58.13	£58.13	£58.13	£58.13
ESK45*	45 (35/10)	Euro profile single cylinder with turn, no keys	SCP	£58.13	£58.13	£58.13	£58.13
EKK3030*	60 (30/30)	Euro profile cylinder with turn / turn, no keys	SCP	£71.05	£71.05	£71.05	£71.05
EKK3535*	70 (35/35)	Euro profile cylinder with turn / turn, no keys	SCP	£71.05	£71.05	£71.05	£71.05

Also in other euro lengths as ES and EK above.

RC*	-	Rim cylinder with tail for night latch	SCP	£24.14	£31.96	£31.96	£33.96
RM*	-	Rim mortice cylinder, screw-in type	SCP	£39.26	£39.55	£39.55	£44.03
ADK*	-	Additional differ keys supplied with cylinder	-	£11.17	£11.17	£11.17	£11.17
MK*	-	Master keys with originating order	-	-	-	-	£23.70
KSL*	-	Keys supplied later	-	£30.58	£30.58	£30.58	£30.58



ZEROPLUS KD STANDARD DIFFER CYLINDERS

A contract range of euro profile 5 pin cylinder barrels supplied standard differ (SD) with 3 keys per cylinder. All functions are satin chrome plated and all have a central cam. However, we can supply cylinders with offset cams to special order, also cylinders keyed alike (see KA1 below) and under master key (see page 146). All cylinders are supplied with cylinder retaining screws.

Z952

Single cylinder, euro profile SCP finish,
3 keyed each to differ.

Z952.40 40mm long £8.11 each (Box Qty 10)

Z952.45 45mm long £9.28 each (Box Qty 10)



Z912

Double cylinder, euro profile SCP finish,
3 keyed each to differ.

Z912.60 60mm long £11.06 each (Box Qty 10)

Z912.70 70mm long £11.36 each (Box Qty 10)

Z912.80 80mm long £12.90 each (Box Qty 10)



Z962

Cylinder & turn, euro profile SCP finish,
3 keyed each to differ.

Z962.60 60mm long £12.53 each (Box Qty 10)

Z962.70 70mm long £12.38 each (Box Qty 10)



Z942

Blind thumbturn cylinder, euro profile SCP finish,
No keys required.

Z942.40 40mm long £15.85 each (Box Qty 10)

Z942.45 45mm long £16.96 each (Box Qty 10)



ZEROPLUS KA1 KEYED ALIKE CYLINDERS TO PASS

When there is a requirement for multiple cylinders to be operated by the same key, we can supply cylinders that are all passed by the same servant key. These are sometimes referred to as "keyed alike" or "pass group" cylinders. Our "stock" pass group operates the single cylinder, double cylinder and cylinder & turn with the same key (KA1). **Please note this pass group is for convenience only and not for security.** They are normally used as temporary cylinders on site until master keyed cylinders are fitted by the client.

Z952.45 KA1

Single cylinder, euro profile SCP finish, 45mm long,
3 keyed each to pass key KA1.

£13.08 each (stock pass group)



Z912.70 KA1

Double cylinder, euro profile SCP finish, 70mm long,
3 keyed each to pass key KA1.

£16.22 each (stock pass group)



Z962.70 KA1

Cylinder & turn, euro profile SCP finish, 70mm long,
3 keyed each to pass key KA1.

£17.33 each (stock pass group)



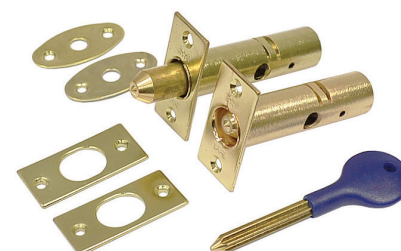
Where customers require keyed alike cylinders but do not want to use our "stock" pass group or want to have a restricted key profile so that duplicate keys cannot be obtained at heel bars, we can offer 6 pin restricted profile pass groups but these will cost more than the KA1 pass group above. If non-standard length cylinders are required then it will always be necessary to take this option. These cylinders will be manufactured to special order, and spare keys are available to order through us. The same key will operate single cylinders, double cylinders, cylinders & turns and rim cylinders. This makes it possible to mix and match different cylinder types in the same pass group, or even incorporate the pass group into a master keyed suite. These cylinders are each supplied with two keys so if you order five cylinders you will get ten keys all the same. The thumbturn is elliptical as shown on page 146 opposite, and prices are as shown in the third column under the reference KAR.

SPLINED SECURITY DOOR BOLTS

The splined security door bolt (sometimes called a rack bolt) offers concealed security for all internal and external doors. It is morticed into the leading edge of a door, usually at the top. The splined key locks and unlocks from one side only, always the inside. In particular this door bolt offers added security on external doors with exposed hinges, helping to prevent doors being forced off their hinges.

Body length: 60mm.
Body diameter: 16mm.
Backset: 32mm.
Bolt throw: 16mm.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZCHDB-EB	Set of 2 door security bolts, 2 strikes and 2 escutcheon plates, electro brass finish, and 1 key	£26.04	set	10
ZCHDB-SC	Set of 2 door security bolts, 2 strikes and 2 escutcheon plates, satin chrome finish, and 1 key	£28.01	set	10
ZCHDB-KEY	Additional splined star key only, to operate above	£3.59	each	10



MECHANICAL PUSH BUTTON LOCKS

Mechanical push button locks eliminate the problems and associated costs of issuing, controlling, collecting keys and cards and overcoming problems if they are lost. They provide a fully mechanical method of push button access control by exterior combination, while allowing free egress at all times by interior thumbturn. Deadlocking latch models automatically relock each time the door closes. Rim locking latch models relock automatically when the door closes and also have latch holdback. Locks can be easily programmed with different access codes should the existing code be compromised. No battery or power is required to the door.

KABA SIMPLEX 3000 SERIES

Z3001 NARROW STILE COMBINATION ENTRY

Applications:	Suitable for narrow stile aluminium doors.
Locations:	Highly weather resistant.
Keypad:	Vandal resistant housing, solid metal pushbuttons.
Lock:	Order Z802.1 or Z802.2 latch and strike, and Z804 round screw-in cylinder separately, see page 144.
Backset:	25mm, 29mm or 38mm, minimum stile required 48mm.
Action:	Combination entry, key override, passage, lockout.
Door:	To suit 44mm max thick aluminium doors.
Hand:	Order LH or RH.
Packing:	Consists of keypad body and separate drive assembly which has different backsets and is also handed LH or RH.
Finish:	Satin chrome US26D.

Z3001-LH Left hand, satin chrome finish £535.92 each (Box Qty 1)

Z3001-RH Right hand, satin chrome finish £535.92 each (Box Qty 1)



KABA SIMPLEX 7100 SERIES

Z7104 TUBULAR MORTICE DEADLOCKING LATCH

Applications:	Suitable for high use applications.
Keypad:	Vandal resistant housing, solid metal pushbuttons.
Latch:	13mm deadlocking mortice latch, flat face plate.
Backset:	60-70mm adjustable, minimum stile required 102mm.
Action:	Automatic relock when door closes.
Door:	To suit 35-57mm thick timber or steel doors.
Strike plate:	Curved lip strike plate.
Hand:	Not handed, reversible on site.
Finish:	Satin chrome US26D standard, other finishes to order.

Z7104 Satin chrome finish POA (Box Qty 1)



Z7106 RIM DEADLOCKING LATCH WITH LATCH HOLDBACK

Applications:	Suitable for high use applications, wood doors only.
Keypad:	Vandal resistant housing, solid metal pushbuttons.
Latch:	16mm rim deadlocking latch, flat face plate.
Backset:	60mm backset, minimum stile required 102mm.
Action:	Automatic relock when door closes and latch holdback.
Door:	To suit 35-57mm thick timber doors only.
Strike plate:	Box strike for in-swing doors and flat strike for out-swing doors.
Hand:	Not handed, reversible on site.
Finish:	Satin chrome US26D standard (inside nightlatch black), other finishes to order.

Z7106 Satin chrome finish POA (Box Qty 1)



DIGITAL LOCKS

DIGITAL LOCK ZEU996SC/Z2001 PUSH BUTTON LOCK WITHOUT HOLDBACK FACILITY

Function:	Push button digital lock without holdback.
Applications:	Entry level lock suitable for low use applications, external use only for sheltered locations.
Codes:	Over 8,000 code combinations available.
Latch:	60mm backset mortice latch included (70mm also available) with strike plate.
Hand:	Not handed, reversible on site.
Finish:	Satin chrome.

ZEU996SC Satin chrome finish £58.41 each (Box Qty 1)



DIGITAL LOCK ZEU995SC/Z2201 PUSH BUTTON LOCK WITH HOLDBACK FACILITY

Function:	Push button digital lock with holdback facility.
Applications:	Entry level lock suitable for low use applications, external use only for sheltered locations.
Codes:	Over 8,000 code combinations available.
Latch:	60mm backset mortice latch included (70mm also available) with strike plate.
Hand:	Not handed, reversible on site.
Finish:	Satin chrome.

ZEU995SC Satin chrome finish £58.41 each (Box Qty 1)



PLEASE CALL FOR DETAILS OF OTHER DIGITAL LOCKS AVAILABLE.

ELECTROMAGNETS & ACCESSORIES

A selection of products from our access control range is shown below. These products will suit inward and outward opening single leaf and double leaf applications, on doors that swing in one direction only. They include basic stand-alone keypads and proximity access control systems. Such products facilitate in controlling access of people into and egress out of buildings; they are not security products. A basic system will comprise an electromagnet, keypad entry and remote button entry, power supply, egress button and emergency escape button. To ensure correct operation, doors should be fitted with a self-closing device e.g. overhead door closer as shown on pages 123-127. Battery back-up is also available to guarantee continued operation in the case of a failure in the power supply. This is a small selection of products from our access control range and there are many other products available. Please ask for details.



ZM7010

Slimline single magnet.
12/24V DC monitored.
275kg holding force, SAA finish.
£59.51 each (Box Qty 1)



ZM7011

Slimline double magnet for pairs of doors.
12/24V DC monitored.
275kg holding force, SAA finish.
£113.75 each (Box Qty 1)



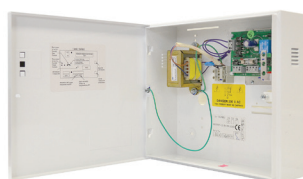
ZMBR008

L bracket set.
For slimline single magnet.
To suit outward opening door.
£20.85 set (Box Qty 1)



ZMBR089

Z & L bracket set.
For slimline single magnet.
To suit inward opening door.
£32.22 set (Box Qty 1)



ZPSU1202C

Power supply unit 12V DC 2 Amp.
Battery charging facility, boxed.
(ZB4012 battery not included).
£64.70 each (Box Qty 1)



ZB4012

Battery for battery back-up unit.
12V DC 7 Amp.
Suitable for use with power supply units.
£34.05 each (Box Qty 1)



ZR200

Multi-purpose fire relay.
For fire alarm connection.
12/24V DC.
£27.24 each (Box Qty 1)



ZKP500

Stand alone / proximity keypad.
12V DC with built in proximity reader.
500 user - weather resistant.
Proximity cards not included but available to order at £7.43 each.
£119.70 each (Box Qty 1)



ZC6021

White plastic exit button.
1 gang surface mount.
Rocker switch type.
£20.42 each (Box Qty 1)



ZC6019

Green dome exit button.
Flush mounted 1 gang.
Satin stainless steel.
£34.05 each (Box Qty 1)



ZCP201

Break glass unit surface fix.
Green resettable call point.
Double pole.
£25.54 each (Box Qty 1)



ZFC620/WH

White steel door monitoring contact.
Flush fitting pencil type.
25mm diameter x 33mm, 15mm operating gap.
4 core pre-wired.
With collar for steel door (overcomes door magnetism).
EN50131-2-6 Grade 2, Environmental Class II.
Now tested for use on uninsulated steel fire doors up to 240 minutes integrity, to BS EN 1634-1:2014. Report available - 387313 Issue 5.
£13.67 each (Box Qty 10)

ZC610.1 shroud (converts to surface mounting).
£16.02 each (Box Qty 1)

ZCDL CONCEALED FIXING POWER TRANSFER UNITS

These products are widely used where cable management is required on hinged doors, typically where it is necessary to transfer electricity from door frames to door leaves to power access control and electromagnetic door closers. These power transfer units are concealed fixing and are invisible when the door is in the closed position. They are fitted at the hinge side of the door and allow the door to open to 120°. Both variants have a steel casing body and flexible metal conduit in chrome plated finish. Please note the square pattern is 16mm deep whereas the radius pattern is 20mm deep.

FIRE

The ZCDL has been assessed by Exova Warringtonfire for use on previously fire tested insulated and uninsulated steel-based doorsets which have achieved up to 240 minutes integrity, and where appropriate insulation, in accordance with BS EN 1634-1:2014. Copy of WF Assessment Report No 387313 Issue 5 available on request.

CORROSION

This product has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

ZCDL/SQ

Concealed pattern power transfer unit.

Top selling design.

Square ends.

Body size 290mm high x 25mm wide x 16mm deep.

Flexible metal conduit 14mm external diameter and

11mm internal diameter.

Steel casing, chrome plated finish.

£20.93 each (Box Qty 1)



ZCDL/RAD

Concealed pattern power transfer unit.

Radius ends.

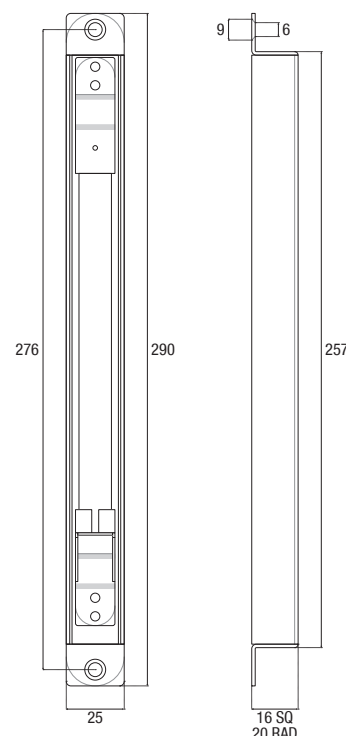
Body size 290mm high x 25mm wide x 20mm deep.

Flexible metal conduit 14mm external diameter and

11mm internal diameter.

Steel casing, chrome plated finish.

£23.31 each (Box Qty 1)



ABLOY CONCEALED FIXING POWER TRANSFER UNITS

These original Abloy concealed pattern power transfer units have been available for many years. They are sometimes called lead covers. The Z280 suits standard doors opening to 120°, but doors opening to greater angles up to 180° require the Z281 which has an extra-longer flexible conduit and consequently a longer body which houses it. They are widely used where cable management is required on hinged doors, typically where it is necessary to transfer electricity from door frames to door leaves to power access control and electromagnetic door closers. These power transfer units are fitted at the hinge side of the door, and are invisible when the door is in the closed position. Both patterns have a steel casing body and flexible metal conduit in chrome plated finish. If the distance from hinge pin to door frame is more than 20mm, the Z281 should be used. Not for use on centrally pivoted doors.

Z280

Abloy concealed pattern power transfer unit.

Radius ends.

Body size 323mm high x 24mm wide x 17mm deep.

Fitted at hinge side of door.

Flexible loop with 12mm external diameter.

Maximum diameter of wire bundle 7.5mm.

Maximum door opening angle 120°.

Steel casing, chrome plated finish.

£55.93 each (Box Qty 1)



Z281

Abloy concealed pattern power transfer unit.

Radius ends.

Body size 543mm high x 24mm wide x 17mm deep.

Fitted at hinge side of door.

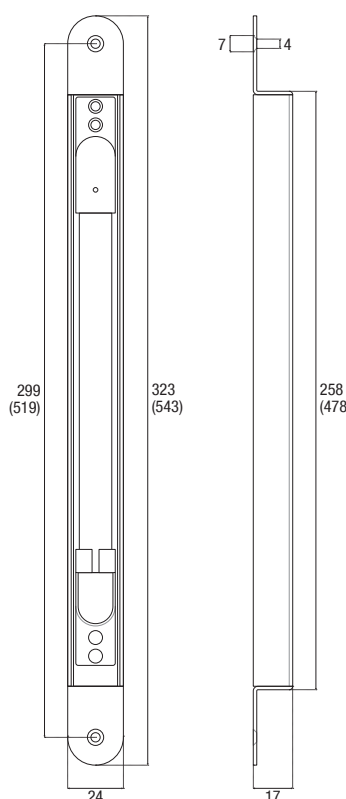
Extra-long flexible loop with 12mm external diameter.

Maximum diameter of wire bundle 7.5mm.

Maximum door opening angle 180°.

Steel casing, chrome plated finish.

£82.84 each (Box Qty 1)



STAINLESS STEEL POWER TRANSFER UNITS

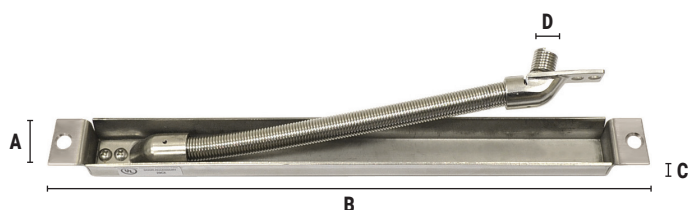
- Power transfer units provide means for running electrical wires from the frame to the door in a secure and discreet manner.
- US32D stainless steel housing and spring conduit. All components and screws Grade 304 stainless steel.
- Fully concealed when door is in closed position. Fully morticed channel.
- 12mm diameter flexible stainless steel spring conduit.
- UL Listed in the USA.
- Designed for low voltage use only. 30 VAC, 42.5 VDC, 10 WATTS maximum.
- ZPT105 and ZPTR105 allow for maximum door opening of 105 degrees.
- ZPT180 and ZPTR180 allow for maximum door opening of 180 degrees.
- ZPT105 and ZPT180 have channel with square ends.
- ZPTR105 and ZPTR180 have channel with radius ends.
- Optional security brackets available ref ZPTS105 and ZPTS180 to prevent tampering when the door is in the closed position.



SQUARE



RADIUS



REF	DIM. A	DIM. B	DIM. C	DIM. D
ZPT105	27mm	290mm	18mm	12mm
ZPT180	27mm	510mm	18mm	12mm

ZPT105

Stainless steel power transfer.
Grade 304 stainless steel.
Square corners.
Body size 290mm high x 27mm wide x 18mm deep.
Flexible stainless steel conduit 12mm external diameter.
Maximum door opening 105 degrees.
£102.18 each (Box Qty 1)



ZPT180

Stainless steel power transfer.
Grade 304 stainless steel.
Square corners.
Body size 510mm high x 27mm wide x 18mm deep.
Flexible stainless steel conduit 12mm external diameter.
Maximum door opening 180 degrees.
£121.83 each (Box Qty 1)



ZPTR105

Stainless steel power transfer.
Grade 304 stainless steel.
Radius corners.
Body size 290mm high x 27mm wide x 18mm deep.
Flexible stainless steel conduit 12mm external diameter.
Maximum door opening 105 degrees.
£102.18 each (Box Qty 1)



ZPTR180

Stainless steel power transfer.
Grade 304 stainless steel.
Radius corners.
Body size 510mm high x 27mm wide x 18mm deep.
Flexible stainless steel conduit 12mm external diameter.
Maximum door opening 180 degrees.
£121.83 each (Box Qty 1)



ZPTS105

Stainless steel security bracket.
Grade 304 stainless steel.
171mm long.
Maximum door opening 105 degrees.
£25.16 each (Box Qty 1)



ZPTS180

Stainless steel security bracket.
Grade 304 stainless steel.
392mm long.
Maximum door opening 180 degrees.
£28.29 each (Box Qty 1)



ZFM SURFACE MOUNTED DOOR LOOPS

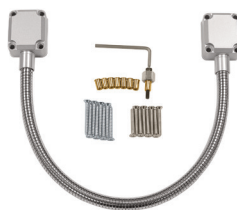
Zero has long offered the ZFM traditional pattern surface mounted door loop in the standard length of 450mm. This product is used to transfer electricity from door frame to door leaf so that any electric hardware on the door can be powered. Following requests from customers for a longer version to work on thicker doors, doors on projecting hinges or doors opening to greater angles, we are pleased to add a 600mm version to the range. Both sizes are supplied complete with visible fixing machine and wood screws and supplied in silver finish as standard.

CORROSION

This product has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

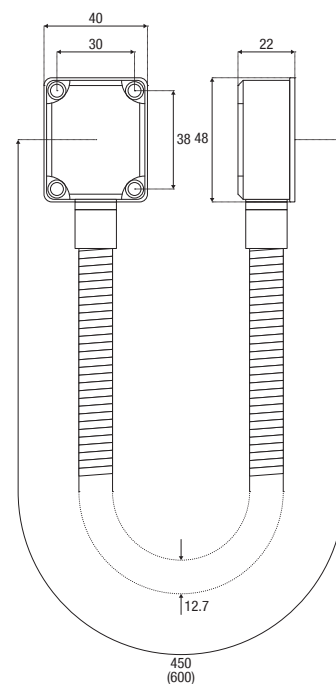
ZFM.450

Traditional pattern door loop.
Top selling pattern.
Standard length 450mm long overall.
Cast aluminium ends 48mm x 40mm x 22mm.
Four fixings for each end supplied.
Silver finish.
Flexible metal loop 12.7mm external diameter and 7.3mm internal diameter.
Chrome plated finish.
£26.91 each (Box Qty 1)



ZFM.600

Traditional pattern door loop.
Extended length 600mm long overall.
Cast aluminium ends 48mm x 40mm x 22mm.
Four fixings for each end supplied.
Silver finish.
Flexible metal loop 12.7mm external diameter and 7.3mm internal diameter.
Chrome plated finish.
£29.60 each (Box Qty 1)



ZFLEX SURFACE MOUNTED DOOR LOOPS

When budget door loops are required we can offer the ZFLEX-30 with a 300mm long metal loop and the ZFLEX-60 with a 600mm metal loop. Additionally we offer the ZADL vandal resistant pattern door loop with vandal resistant screws. These products are used to transfer electricity from door frame to door leaf so that any electric hardware on the door can be powered.

ZFLEX-30

Economy pattern door loop.
Standard length 300mm overall.
With metal end caps.
Silver finish.
£14.27 each (Box Qty 1)



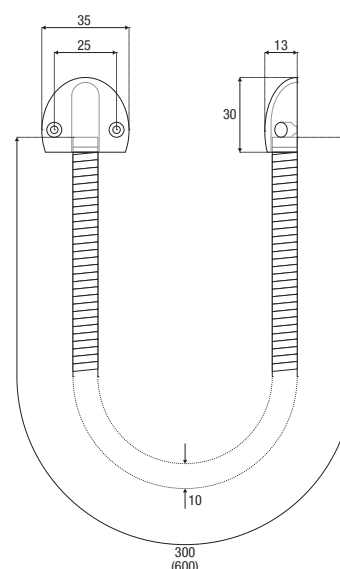
ZFLEX-60

Economy pattern door loop.
Standard length 600mm overall.
With metal end caps.
Silver finish.
£17.00 each (Box Qty 1)



ZADL

Vandal resistant pattern door loop.
Standard length 600mm overall.
Including vandal resistant screws.
Chrome plated finish.
£40.33 each (Box Qty 1)



ZFLEX CONCEALED DOOR LOOPS

Whereas typical flexible door loops are surface mounted and remain constantly visible, the patented ZFLEX-C uniquely slides into the door and frame completely concealing itself when the door is closed. Designed essentially for hollow metal doors, the ZFLEX-C is a low cost method of having concealed power transfer from the frame to the door. Designed for continuous and butt hinge applications the ZFLEX-C's aesthetic appeal will benefit retrofits and new installations alike.

Stocked with silver anodised aluminium fixing caps, the ZFLEX-C is 152mm long offering up to 180° opening when used with standard butt hinges. Also available in the range to special order is the standard unit with black fixing caps, a model with one end fixed for installations with a solid / filled frame and finally extended patterns for pivot doors. All options can be supplied with silver or black end caps.

To fit this product it will be necessary to drill 16mm diameter holes in the edge of the door and the frame stop. Please ensure that the hole in the door does not compromise the structural integrity of the door. It will be necessary to select a location in the frame that avoids the ZFLEX-C making contact with any reinforcement or anchoring brackets in the frame. The electrical wire must slide freely within the armoured cable to avoid flexing and straining.

TESTING

Following a successful fire test the ZFLEX concealed door loops have been positively assessed for use on previously tested insulated and uninsulated steel-based doorsets for a duration up to 240 minutes to BS EN 1634.1. Copy of Warringtonfire assessment report 387313 available upon request.

- Concealed door loop.
- Standard finish silver aluminium fixing caps.
- Also available in black finish fixing caps.
- Designed for hollow metal doors.
- Electrical wire slides freely within the armoured cable.
- Durable finish.
- Easy Installation.
- Variable mounting locations.
- Special 6.4mm flexible armoured conduit.
- Up to 180° opening when used with standard hinges.
- 152mm long for use with butt hinges.
- 305mm long for use with pivots, one side extended.
- 457mm long for use with pivots, both sides extended.

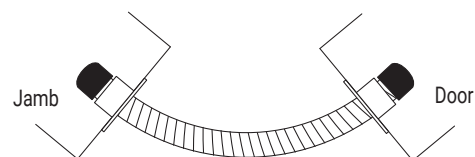
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
FOR DOORS HUNG ON STANDARD BUTT HINGES, 152MM LONG				
ZFLEX-C-ALU	152mm length with silver anodised aluminium finish fixing caps	£45.07	each	10
ZFLEX-C-BLK	152mm length with black finish fixing caps	£45.07	each	10
ZFLEX-C-ALU-FX*	152mm length with silver anodised aluminium finish fixing caps (1 side fixed to create complete concealment in the opposing side)	£75.11	each	10
ZFLEX-C-BLK-FX*	152mm length with black finish fixing caps (1 side fixed to create complete concealment in the opposing side)	£75.11	each	10
FOR DOORS MOUNTED ON PIVOTS, 305MM AND 457MM LONG				
ZFLEX-C-ALU-EXT*	305mm length with silver anodised aluminium finish fixing caps, door side fixed, frame side extended	£81.12	each	10
ZFLEX-C-BLK-EXT*	305mm length with black finish fixing caps, door side fixed, frame side extended	£81.12	each	10
ZFLEX-C-ALU-EXT2*	457mm length with silver anodised aluminium finish fixing caps, door side fixed, both sides extended	£87.13	each	10
ZFLEX-C-BLK-EXT2*	457mm length with black finish fixing caps, door side fixed, both sides extended	£87.13	each	10



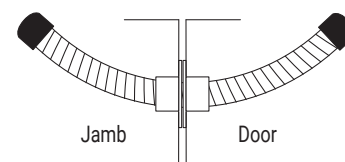
ZFLEX-C-ALU (Silver fixing caps)



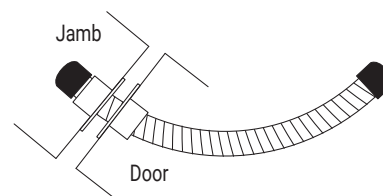
ZFLEX-C-BLK (Black fixing caps)



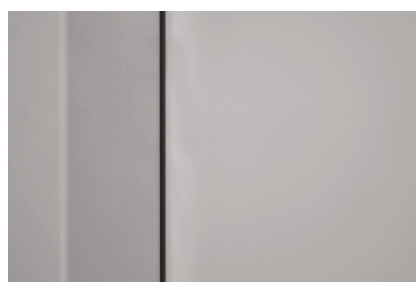
OPEN



CLOSED



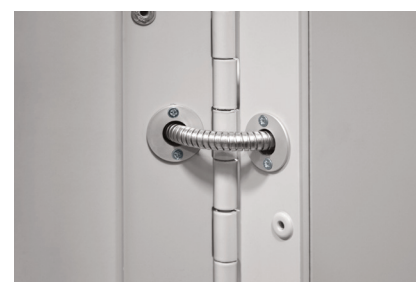
CLOSED - ONE SIDE FIXED
OPTIONAL FX MODEL



DOOR CLOSED



DOOR HALF OPEN



DOOR FULLY OPEN

POWER TRANSFER UNITS

ZPT200 and ZPT1000 provide the means of transferring electrical power and data from the frame to the door in a secure and discreet manner. The unit mortices into the edges of the door and frame and is completely concealed when the door is in the closed position. They are of all-metal construction including back boxes and there are no plastic parts. They are ideal for use in heavy traffic or high abuse situations, and are UL/ULC Listed for use on fire doors in the USA. They are packaged individually with fasteners for wood, steel or aluminium doors and frames. They are not suitable for doors hung on swing-clear projecting hinges and offset pivots or centre hung doors on pivots. Standard finish US28 brushed aluminium silver grey but also available powder coated dark bronze to match US10B finish to special order.

ZPT200

Power transfer unit, concealed pattern.
All metal construction, no plastic parts.
UL/ULC Listed in USA.
Silver grey finish US28.
2 x 18 AWG wires.
Max rating 24V DC, 5 Amp.
£304.45 each (Box Qty 1)



ZPT1000*

Power transfer unit, concealed pattern.
All metal construction, no plastic parts.
UL/ULC Listed in USA.
Silver grey finish US28.
10 x 24 AWG wires.
Max rating 24V DC, 1 Amp.
£305.51 each (Box Qty 1)

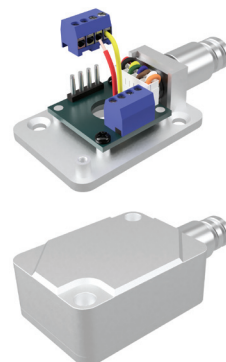
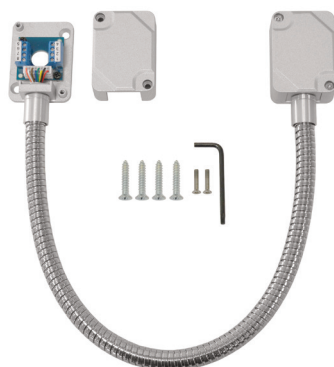


DOOR LOOPS WITH DETACHABLE TERMINALS

These modern loops are the newest addition to the Zero range. They feature printed circuit boards with detachable electric terminals on both ends that significantly reduce installation times by eliminating the need to thread wires through the loop. Numbered terminals make it easy to correctly arrange wiring for multiple pieces of electric equipment.

ZDL-360TB

Door loop with detachable terminals.
2 detachable terminals on each end, 4 slots each.
Silver finish.
Flexible metal loop 12.5mm external diameter & 9mm internal diameter.
380mm cable length.
Max rating 24V DC, 1 Amp.
£40.73 each (Box Qty 1)



2 & 3 PIN TRANSFER CONTACTS

These small white plastic transfer contacts are available either two pin or three pin. Each are two-part; the main part contains either two or three spring loaded contacts, and the secondary part has two or three contact plates.

ZC2P

Two pin transfer contact.
Spring loaded.
Max rating 12V DC, 1.5 Amp.
White plastic.
£16.91 each (Box Qty 1)



ZC3P

Three pin transfer contact.
Spring loaded.
Max rating 12V DC, 1.5 Amp.
White plastic.
£26.28 each (Box Qty 1)



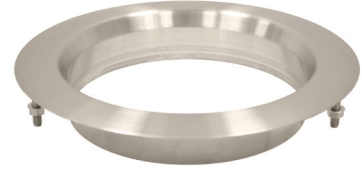
WORKTOP WASTE BEZELS

These edging trims are designed to be fitted in worktops in restaurants and hotel kitchens above waste receptacles. They are manufactured from easy to clean stainless steel, and are available circular or square to suit different designs of kitchen, or to differentiate between different types of waste e.g. recyclable products and food waste.

With minimal projection off the face they prevent build up of dirt and germs on the work surface. The edge lining is 45mm deep and is designed to suit 40mm thick worktops. They can be supplied with deeper edge linings for thicker worktops to special order. Circular and square canteen lids are available as an optional extra.

CIRCULAR BEZEL

Material:	Grade 304 stainless steel.	
Finish:	Standard finish satin, polished available to order.	
Size:	285mm diameter outside frame.	
Chute:	Clear chute diameter 200mm.	
Cut-out:	Cut-out in work surface should be 225mm.	
Fixing:	With two 60mm welded threaded fixing pins, washers and nuts.	
Box Qty:	Packed 1 per box, 4 per outer.	
WWB.1	200mm diameter clear chute bezel, satin stainless steel	£105.04 each



CIRCULAR CANTEEN LID (OPTIONAL)

Material:	Grade 304 stainless steel.	
Finish:	Standard finish satin, polished available to order.	
Size:	260mm diameter.	
Knob:	Fitted with WWK.1 20mm diameter cylindrical knob.	
Box Qty:	Packed 1 per box, 4 per outer.	
WWL.1	260mm diameter circular lid, satin stainless steel	£47.18 each



SQUARE BEZEL

Material:	Grade 304 stainless steel, fully welded mitres.	
Finish:	Standard finish satin, polished available to order.	
Size:	240x240mm outside frame.	
Chute:	Clear chute size 150x150mm.	
Cut-out:	Cut-out in work surface should be 180x180mm.	
Fixing:	With two 60mm welded threaded fixing pins, washers and nuts.	
Box Qty:	Packed 1 per box, 4 per outer.	
WWB.3	150x150mm clear chute bezel, satin stainless steel	£155.80 each



SQUARE CANTEEN LID (OPTIONAL)

Material:	Grade 304 stainless steel.	
Finish:	Standard finish satin, polished available to order.	
Size:	212x212mm.	
Knob:	Fitted with WWK.1 20mm diameter cylindrical knob.	
Box Qty:	Packed 1 per box, 4 per outer.	
WWL.3	212x212mm square lid, satin stainless steel	£87.32 each



OPTIONAL LID KNOBS

Knobs are included in the price of canteen lids above. They are also available separately so other kitchen furniture can be suited to match.

WWK.1	20mm diameter cylindrical knob, satin stainless steel	£9.96 each
WWK.2	25mm diameter spherical ball knob, satin stainless steel	£13.59 each



MAB ELITE SERIES GLASS DOOR LOCKSETS

A popular range of heavy duty patch fittings with offset mechanisms for toughened glass doors 8-10mm and 12mm thick. Where supplied, lever handles can be front mounting or rear mounting; the lever handles do not project outside the backplate when front mounting and overhang the backplate when rear mounting. The mechanism is offset to allow compression of the rebate strip.

Material:	Aluminium.
Finish:	Natural anodised aluminium silver.
Handing:	Reversible, not handed.
Glass thickness:	Adjustable to suit glass thickness 8mm - 12mm.
Fixing:	Supplied with all necessary fixings.
Glass door prep:	To fit notch 6300EX.
Strike plate:	Supplied complete with 60x20mm lipped strike plate with bent lip.
Cylinder (where supplied):	Euro profile cylinder 60mm long, 3 keyed to differ.

V525

Complete lockset comprising:
V310 Centre lock (MV3104RANF)
V750 Lever handles (MV7500SANH)
V017 Double cylinder (MV0170SOTU)
£208.98 set



V310

Centre lockset including strike plate to suit euro profile cylinder (not included) and lever handles or knobs (supplied separately), rear mounting.
MV3104RANF
£153.90 set (Box Qty 1)



V527

Patch keep for centre lock on pairs of glass doors. To be used in conjunction with V310, V330 or V340.
MV5274SANF
£152.03 set (Box Qty 1)



V330

Centre latch set including strike plate to suit lever handles or knobs (supplied separately), rear mounting (not locking).
MV3304SANF
£157.69 set (Box Qty 1)



V340

Centre latch set including strike plate to suit lever handles or knobs (supplied separately), front mounting (not locking).
MV3404SANF
£155.02 set (Box Qty 1)



V750

Pair of lever handles for use with above, including 8mm spindle.
MV7500SANH
£38.47 pair (Box Qty 1)



V525-5.12

Pair of door knobs for use with above, including 8mm spindle.
MV52552SANG
£160.92 pair (Box Qty 1)



V017

Double euro profile cylinder, 60mm long, 22mm/10mm/28mm offset to suit MAB glass door lock, 3 keyed to differ, nickel plated finish, cam parked at 6 o'clock.
MV0170SOTU
£16.61 each (Box Qty 1)



MAB ELITE SERIES GLASS DOOR PATCH FITTINGS

To complement the glass door locksets shown on page 156 opposite, we have introduced the MAB Elite Series of glass door patch fittings. Having many years of experience in architectural glass products, MAB have developed the Elite Series patch fittings to allow quick and easy installation of glass doors. These patch fittings ensure the highest possible clamping due to their compact size. These heavy duty patch fittings are suitable for all toughened glass applications.

The range is fully compatible with the MAB floor springs shown on pages 128-129.

Material:	Aluminium.
Finish:	Standard patch fitting finish is natural anodised aluminium silver. Pivots are satin chrome plated. Other finishes are available, please call for details and costs.
Glass thickness:	Adjustable to suit glass thickness 8mm - 12mm.
Door type:	Suitable for single and double action doors.
Pivot point:	Wide adjustment range of 52-58mm from door edge
Door weight:	To suit up to 100kg doors.
Fixing:	Supplied with Centellen seals.



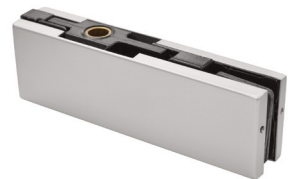
V500

Patch fitting for bottom of centre hung door.
Use with floor springs shown on page 128.
Suits Italian spindle (see page 129). Available to special order to suit German spindle.
£34.44 each (Box Qty 1)



V501

Patch fitting for top of centre hung door.
For use with V508, V502 or AC233.
£31.79 each (Box Qty 1)



V508

Patch fitting for side or over panel application.
With integral pivot.
For use with V501.
£71.55 each (Box Qty 1)



V502

Plate with top pivot.
For use with V501.
£14.58 each (Box Qty 1)



AC233

Retractable top pivot.
For use with V501.
£10.61 each (Box Qty 1)



V522

Patch centre lock, Euro profile.
Cylinder supplied separately (see page 156).
£45.05 each (Box Qty 1)

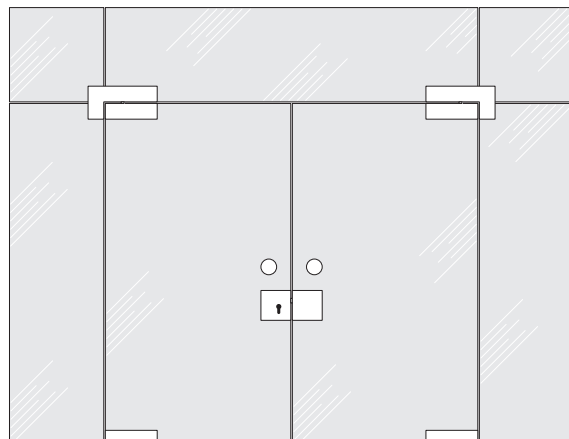


V523

Strike patch for centre lock.
To be used with V522.
£45.05 each (Box Qty 1)



TYPICAL INSTALLATION



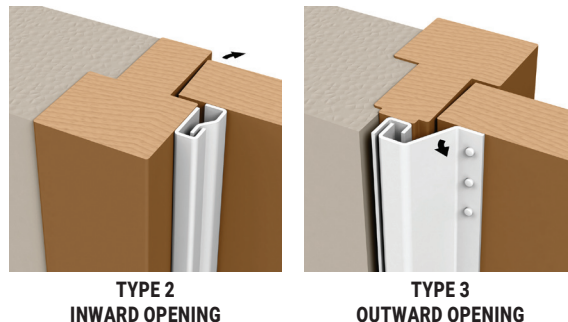
FOR GLASS DOOR SEALS SEE PAGES 44-45.

SECUSTRIP PLUS STEEL ANTI-JEMMY STRIPS

SecuStrip Plus features two interlocking steel profiles. They are fitted to the outside of the door and the side of the door frame, and fit together when the door is closed, protecting the gap between the door and frame against intrusion. They are ingeniously designed to make attack by jemmy, crowbar or screwdriver more difficult on the edge of the door that the lock is fitted to. They can also be fitted to windows. SecuStrip Plus has the benefit of acting as a draught excluder and it can also conceal damage to doors that have been previously attacked. This proven product is manufactured in Holland and over 4 million SecuStrips have been sold in Holland to date.

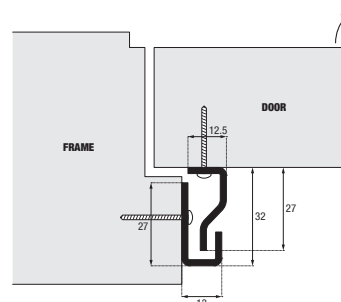
The product is available from stock in two designs; **Type 2** for inward opening doors (typically front doors) and **Type 3** for outward opening doors (typically back doors). They are cut to size on site to suit the door height. There are other designs within the range so please call us if Type 2 and Type 3 are not exactly what you are looking for. Fixings are supplied for wooden doors but SecuStrip Plus may be fitted to aluminium, steel and PVC doors.

Installation:	Quick and easy to install, may be cut to length using a hacksaw.
Testing:	Independent SKG tests show SecuStrip is difficult to break open.
Material:	Zinc plated mild steel.
Finishes:	Epoxy powder coated white (RAL9010) or brown (RAL8014).
Fixing:	Screws included for timber doors. Half of screws with Type 3 are clutch-head security screws.
Length:	Type 2 standard length 2050mm, also available 2300mm. Type 3 standard length 2115mm, also available 2300mm.
Warranty:	5 year guarantee against manufacturing defects and product failure.
Box Quantity:	Packed individually with fixings and fitting instructions.



TYPE 2 SECUSTRIP PLUS FOR INWARD OPENING DOORS

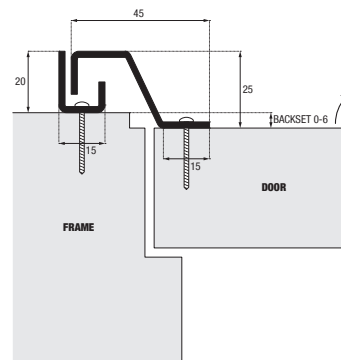
- Two-part interlocking, frame profile and door profile.
- Fixings totally concealed when the door is in the closed position.
- Supplied with 22 wood screws.
- Available white or brown.
- Overall length 2050mm for standard doors or 2300mm for oversized doors.
- Cut product to size on site.
- 13mm projection off door frame in closed position (NB. specify lock with suitable backset).



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z1020.141.02	SecuStrip for inward opening door, 2050mm long, white, RAL9010	£49.88	each	1
Z1020.141.03	SecuStrip for inward opening door, 2050mm long, brown, RAL8014	£49.88	each	1
Z1020.142.02	SecuStrip for inward opening door, 2300mm long, white, RAL9010	£56.39	each	1
Z1020.142.03	SecuStrip for inward opening door, 2300mm long, brown, RAL8014	£56.39	each	1

TYPE 3 SECUSTRIP PLUS FOR OUTWARD OPENING DOORS (WITH 0-6MM BACKSET FOR UK DOORS)

- Two-part interlocking, frame profile and door profile.
- Frame profile concealed fixing when the door is in the closed position.
- Door profile fixings visible when door is in the closed position.
- Supplied with 11 wood screws for frame profile and 11 clutch-head security screws for door profile.
- Available white or brown.
- Overall length 2115mm for standard doors or 2300mm for oversized doors.
- Cut product to size on site.
- Door profile covers door by 15mm (NB. specify lock with suitable backset).
- Supplied with adjustable 0-6mm backset for UK doors suitable for use on doors flush with frame and doors inset by up to 6mm. Other backset sizes available to special order: 7-13mm, 14-20mm and 21-27mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z1020.160.02	SecuStrip for outward opening door, 2115mm long, 0-6mm backset, white, RAL9010	£59.63	each	1
Z1020.160.03	SecuStrip for outward opening door, 2115mm long, 0-6mm backset, brown, RAL8014	£59.63	each	1
Z1020.170.02	SecuStrip for outward opening door, 2300mm long, 0-6mm backset, white, RAL9010	£66.12	each	1
Z1020.170.03	SecuStrip for outward opening door, 2300mm long, 0-6mm backset, brown, RAL8014	£66.12	each	1

ZEROPLUS LOCK PLATE SECURITY ASTRAGALS

- Extra protection for external outward opening doors fitted with locks.
- Designed to add security to the door by protecting the lock from jemmy attack.
- Screw fixings are countersunk in door edge so they cannot be accessed with door in closed position.
- Screws not included.
- Particularly suitable for vulnerable night latches, both mortice and surface fixing.
- Reversible i.e. not handed. Will suit left hand or right hand doors.
- Suitable for single leaf or pair of leaves.
- Available mild steel, Grade 304 stainless steel and brass.
- Stock sizes shown below. Available in other sizes and full height to special order.
- DIN Standard mortice lock cases with 235mm high forend will require 300mm astragal.
- Can be supplied powder coated to RAL colours at extra cost.



MILD STEEL ANTI-THRUST PLATES

Zinc plated mild steel, 3mm thick, also available black RAL9005, 250mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.

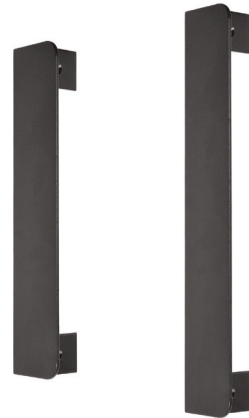
Z702-ZP	Zinc plated for powder coating, 250mm high	£26.23 each (Box Qty 5)
Z702-BLK	Powder coated black, 250mm high	£29.23 each (Box Qty 5)

Please note zinc plated is not a final site finish.

Zinc plated mild steel, 3mm thick, also available black RAL9005, 300mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.
To suit DIN Standard mortice lock cases with 235mm high forend.

Z703-ZP	Zinc plated for powder coating, 300mm high	£26.58 each (Box Qty 5)
Z703-BLK	Powder coated black, 300mm high	£29.59 each (Box Qty 5)

Please note zinc plated is not a final site finish.



STAINLESS STEEL ANTI-THRUST PLATES

Grade 304 stainless steel, 3mm thick, satin or mirror polish finish, 250mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.

Z702-SSS	Satin stainless finish, 250mm high	£33.34 each (Box Qty 5)
Z702-PSS	Mirror polished stainless finish, 250mm high	£56.34 each (Box Qty 5)

Grade 304 stainless steel, 3mm thick, satin or mirror polish finish, 300mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.
To suit DIN Standard mortice lock cases with 235mm high forend.

Z703-SSS	Satin stainless finish, 300mm high	£36.37 each (Box Qty 5)
Z703-PSS	Mirror polished stainless finish, 300mm high	£59.15 each (Box Qty 5)



BRASS ANTI-THRUST PLATES

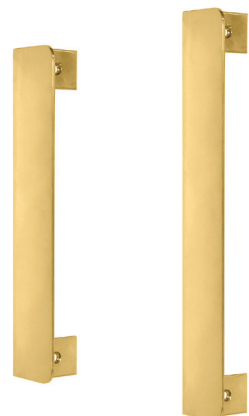
This product may change to brass plated mild steel during the life of this catalogue, please call to check.

Brass, 3mm thick, polished finish only, 250mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.
Suitable for timber doors only.

Z702-PB	Polished brass finish, 250mm high	£63.25 each (Box Qty 5)
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Brass, 3mm thick, polished finish only, 300mm high x 50mm wide.
Fixing lug 40mm deep x 30mm wide drilled centrally.
To suit DIN Standard mortice lock cases with 235mm high forend.
Suitable for timber doors only.

Z703-PB	Polished brass finish, 300mm high	£67.60 each (Box Qty 5)
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STAINLESS STEEL LEVER HANDLES EXTENDED

- Fire - Assessed for integrity only use on insulated timber doorsets for a duration up to 60 minutes, and uninsulated steel doorsets for a duration up to 240 minutes, in accordance with BS EN 1634.1. Report 190867 Issue 7 refers. (Z903.7N-SSS not included)
- Corrosion - Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007. Report WIL 392103 refers. (Z903.7N-SSS not included)
- Accessibility - DDA compliant BS 8300 & Doc M.

Z903.4-SSS - 19MM DIAMETER UNSPRUNG

Grade 304 satin stainless steel.
19mm diameter lever on 53x4mm concealed fixing unsprung rose with stainless steel inner.
To suit doors 38-55mm thick.
Includes screw & bolt through fixings.
8mm spindle included.
£10.62 set (Box Qty 1, outer 20)



Z903.7-SSS - 19MM DIAMETER SPRUNG

Grade 304 satin stainless steel.
19mm diameter lever on 53x7mm concealed fixing sprung rose with stainless steel inner.
To suit doors 38-55mm thick.
Includes screw & bolt through fixings.
8mm spindle included.
£11.01 set (Box Qty 1, outer 20)



Z922.7-SSS - 22MM DIAMETER SPRUNG

Grade 304 satin stainless steel.
22mm diameter lever on 53x7mm concealed fixing sprung rose with stainless steel inner.
To suit doors 38-55mm thick.
Includes screw & bolt through fixings.
8mm spindle included.
£11.02 set (Box Qty 1, outer 20)



Z903.7N-SSS - 19MM NARROW SPRUNG NEW

Grade 304 satin stainless steel.
19mm diameter lever on 30x64x8mm concealed fixing sprung rose with stainless steel inner.
To suit doors 38-55mm thick.
Includes screw & bolt through fixings.
8mm spindle included.
£26.33 set (Box Qty 1, outer 20)



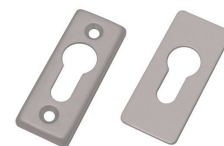
STAINLESS STEEL ESCUTCHEONS

	EURO	BLIND	OVAL	KEY	NARROW NEW	WASHROOM [▲]
4MM THICK concealed fixing escutcheons. 38mm centres. 53mm diameter. Grade 304 stainless steel inner with wood screws. Satin stainless steel. (Priced singly, except washroom)	Z904.4E-SSS £1.71 each Box Qty 20	Z904.4B-SSS £1.71 each Box Qty 20	Z904.4U-SSS £1.71 each Box Qty 20	Z904.4L-SSS £1.71 each Box Qty 20	-	Z904.4W-SSS £16.02 set Box Qty 5
7MM THICK concealed fixing escutcheons. 38mm centres (Z904.7N - 43mm centres). 53mm diameter (Z904.7N - 30 x 64mm). Grade 304 stainless steel inner with wood screws. Satin stainless steel. (Priced singly, except washroom)	Z904.7E-SSS £1.71 each Box Qty 20	Z904.7B-SSS £1.71 each Box Qty 20	Z904.7U-SSS £1.71 each Box Qty 20	Z904.7L-SSS £1.71 each Box Qty 20	Z904.7N-SSS £3.67 each Box Qty 20	Z904.7W-SSS £16.02 set Box Qty 5

[▲] emergency release indicator included (see page 165)

ALUMINIUM ESCUTCHEONS

ESCUTCHEONS FOR EURO PROFILE CYLINDERS				
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z807.1/S	Satin anodised aluminium self-adhesive escutcheon	£2.18	each	1
Z807.2/S	Satin anodised aluminium screw fix escutcheon	£2.27	each	1



STAINLESS STEEL CYLINDER SHROUD

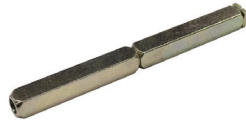
External cylinder shroud for euro profile cylinder. 12.5mm high, supplied with common 8mm internal escutcheon, with fixings, satin stainless steel. Concealed fixing externally. Bolts pass through internal rose inner and lock at 38mm centres. Clip on cover internally conceals fixings.

Z904.SEC.SSS £12.50 set (Box Qty 1)



LEVER HANDLE ACCESSORIES

Split spindle.
8 x 8 x 100mm.
Zinc plated mild steel.
ZSS01 £6.39 each (Box Qty 10)



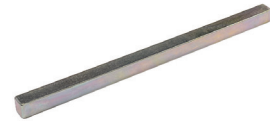
Spindle conversion sleeve.
5mm to 8mm.
ZSC01 £5.00 each (Box Qty 10)



Spindle conversion sleeve.
8mm to 9mm.
Fits in 9mm lock follower so it
suits an 8mm lever handle spindle.
ZSC02 £1.47 each (Box Qty 10)



Solid plain spindle.
8 x 8 x 150mm.
Zinc plated mild steel.
ZSC03 £2.60 each (Box Qty 10)



Solid plain spindle.
5 x 5 x 75mm.
Zinc plated mild steel.
ZSC04 £2.49 each (Box Qty 10)



Taylor's half spindle fixed dead.
8mm square x 20mm high.
ZSC05 £5.14 each (Box Qty 10)



Spindle sleeve pack.
5mm to 6, 7 or 8mm.
ZSC06 £2.44 each (Box Qty 10)



8 x 8 x 65mm half spindle.
Zinc plated mild steel.
Suits half set of lever furniture.
For doors drilled on one side.
Supplied with grub screw and allen key.
ZSC07 £10.13 each (Box Qty 10)



Two-part split shaft spindle.
8 x 8 x 120mm.
Zinc plated mild steel.
Suits doors up to 54mm thick.
Supplied with two grub screws to pierce
spindle wall.
ZSC08 £5.00 each (Box Qty 10)



Split spindle.
8 x 8 x 120mm.
Zinc plated mild steel.
For use with split follower lock.
Suits doors up to 54mm thick.
Set includes 2 x 60mm parts and 2 x
50mm parts.
ZSC09 £20.43 each (Box Qty 10)



Half spindle.
8 x 8 x 70mm.
Zinc plated mild steel.
Suits half set of lever furniture.
For doors drilled on one side.
Suits doors up to 54mm thick.
ZSC10 £16.63 each (Box Qty 10)



Bolt through fixing pack with hexagon
shaft to suit 4mm and 7mm thick
escutcheons, including two fixings and
one allen key.
Z904.4BTF £0.67 set (Box Qty 100)



CYLINDER PULLS & FLUSH PULLS

Euro cylinder pull.
78mm high x 43mm wide.
Satin stainless steel.
Z907.1-SSS £8.29 each (Box Qty 10)



Blind door pull.
78mm high x 43mm wide.
Satin stainless steel.
Z907.2-SSS £8.51 each (Box Qty 10)



Oval cylinder pull (Union type).
78mm high x 43mm wide.
Satin stainless steel.
Z907.3-SSS £8.36 each (Box Qty 10)



Round cylinder pull (Yale type).
78mm high x 43mm wide.
Satin stainless steel.
Z907.4-SSS £8.44 each (Box Qty 10)



Circular flush pull.
90mm diameter.
Satin stainless steel.
Z908.1-SSS £6.55 each (Box Qty 10)



Rectangular flush pull.
102mm x 51mm.
Satin stainless steel.
Z908.3-SSS £9.19 each (Box Qty 10)



Rectangular flush pull.
102mm x 45mm.
Satin chrome plated brass.
Z908.4-SCP £12.92 each (Box Qty 20)



Rectangular flush pull.
102mm x 45mm.
Polished brass.
Z908.4-PB £11.23 each (Box Qty 20)



STAINLESS STEEL PULL HANDLES EXTENDED

These products have been successfully fire tested to BS EN 1634-1:2014 on steel doors up to 240 minutes integrity. Copy of WF Assessment Report No 387312 Issue 2 available upon request.

Pull handles have also been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Extra pairs of roses with stubby bolts in both 19mm and 22mm are also available separately at £4.00 per pair.

225MM X 19MM DIAMETER GRADE 304 SSS PULL HANDLES



Z905.1-SSS

Single pull handle.
Satin stainless steel.
19mm diameter.
225mm centres.
65mm projection.
Bolt through fixing, to suit
44-54mm thick doors.
£7.99 each
Box Qty 1 (outer 50)



Z905.1BB-SSS

Pair pull handles.
Satin stainless steel.
19mm diameter.
225mm centres.
65mm projection.
Bolt through back to back
fixing, to suit 44-54mm thick
doors (or 12mm glass doors).
£23.84 pair
Box Qty 1 (outer 20)



Z905.1CF-SSS

Single pull handle.
Satin stainless steel.
19mm diameter.
225mm centres.
72mm projection.
Surface fixing, with Z905.5.19
53 x 7mm concealed fix roses
with stubby bolts.
£11.52 each
Box Qty 1 (outer 50)



Z905.8F-SSS NEW

Fixed pull handle on plate set.
Satin stainless steel.
19mm diameter.
225mm centres (pull handle).
65mm projection.
Surface fixing, with one
300x76x1.5mm plate with
radius corners, plate drilled
and csk four times.
£20.06 set
Box Qty 10



Z905.8-SSS

Pull handle and plate set.
Satin stainless steel.
19mm diameter.
225mm centres (pull handle).
65mm projection.
Bolt through fixing, with
one 300x76x1.5mm plate
with radius corners drilled
centrally for pull, plate drilled
and csk four times.
£15.29 set
Box Qty 10



Z905.9-SSS

Pull handle and plates set.
Satin stainless steel.
19mm diameter.
225mm centres (pull handle).
65mm projection.
Bolt through fixing, with two
300x76x1.5mm plates with
radius corners, one drilled
centrally for pull, both plates
drilled and csk four times.
£19.05 set
Box Qty 10

300MM X 19MM DIAMETER GRADE 304 SSS PULL HANDLES



Z905.3-SSS

Single pull handle.
Satin stainless steel.
19mm diameter.
300mm centres.
65mm projection.
Bolt through fixing, to suit
44-54mm thick doors.
£8.82 each
Box Qty 1 (outer 50)



Z905.3BB-SSS

Pair pull handles.
Satin stainless steel.
19mm diameter.
300mm centres.
65mm projection.
Bolt through back to back
fixing, to suit 44-54mm thick
doors (or 12mm glass doors).
£28.21 pair
Box Qty 1 (outer 20)



Z905.3CF-SSS

Single pull handle.
Satin stainless steel.
19mm diameter.
300mm centres.
72mm projection.
Surface fixing, with Z905.5.19
53 x 7mm concealed fix roses
with stubby bolts.
£12.83 each
Box Qty 1 (outer 50)

300MM X 22MM DIAMETER GRADE 304 SSS PULL HANDLES



Z905.2-SSS

Single pull handle.
Satin stainless steel.
22mm diameter.
225mm centres.
65mm projection.
Bolt through fixing, to suit
44-54mm thick doors.
£9.18 each
Box Qty 1 (outer 50)



Z905.2BB-SSS

Pair pull handles.
Satin stainless steel.
22mm diameter.
225mm centres.
65mm projection.
Bolt through back to back
fixing, to suit 44-54mm thick
doors (or 12mm glass doors).
£29.24 pair
Box Qty 1 (outer 20)



Z905.2CF-SSS

Single pull handle.
Satin stainless steel.
22mm diameter.
225mm centres.
72mm projection.
Surface fixing, with Z905.5.22
53 x 7mm concealed fix roses
with stubby bolts.
£13.19 each
Box Qty 1 (outer 50)

STAINLESS STEEL ENTRANCE PULL HANDLES

Entrance pull handles are supplied in three styles; Straight (S), Cranked (C), and T-Bar Guardsman (G). They are available single Bolt Through (BT) or Back to Back in pairs (BB). Lengths vary from 300mm up to 1800mm in 19mm, 25mm, 30mm and 35mm diameter as per the tables below. The standard fixings supplied with the pull handles suit doors up to 60mm thick but fixings for thicker doors are available to special order. Back to back fixing pull handles are supplied with optional glass fixing packs as standard for glass doors up to 20mm thick. Fixing bolts require a 13mm diameter hole in glass doors and 8mm diameter hole in steel and timber doors. All pull handles are manufactured from Grade 304 hollow tube stainless steel, and are supplied in satin finish as standard. Polished finish stainless steel is available as an option at a surcharge of 30% on the prices below. If required, roses can be supplied at an extra cost of £8.52 per pair but are only available to suit 19mm (ZCFR19) and 25mm (ZCFR25) diameter pull handles. LRV (Light Reflective Value) = 42.63.

STRAIGHT PULL HANDLES (S), BOLT THROUGH (BT) AND BACK TO BACK (BB)						
	19MM DIAMETER		25MM DIAMETER		30MM DIAMETER	
	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK
300MM CRS	-	-	-	-	Z30S/300-BT-SS* £34.50 each	Z30S/300-BB-SS* £89.00 pair
425/450MM CRS	Z19S/425-BT-SS £19.43 each	Z19S/425-BB-SS £57.06 pair	Z25S/425-BT-SS £22.21 each	Z25S/425-BB-SS* £64.44 pair	Z30S/450-BT-SS* £36.05 each	Z30S/450-BB-SS* £92.13 pair
600MM CRS	Z19S/600-BT-SS £23.99 each	Z19S/600-BB-SS £63.80 pair	Z25S/600-BT-SS £29.29 each	Z25S/600-BB-SS £78.60 pair	Z30S/600-BT-SS £43.35 each	Z30S/600-BB-SS* £106.72 pair
900MM CRS	Z19S/900-BT-SS* £38.46 each	Z19S/900-BB-SS* £96.94 pair	Z25S/900-BT-SS* £42.55 each	Z25S/900-BB-SS* £105.14 pair	Z30S/900-BT-SS £73.14 each	Z30S/900-BB-SS* £166.31 pair
1200MM CRS	-	-	Z25S/1200-BT-SS £56.81 each	Z25S/1200-BB-SS* £135.56 pair	Z30S/1200-BT-SS £85.83 each	Z30S/1200-BB-SS* £191.69 pair
1500MM CRS	-	-	-	-	Z30S/1500-BT-SS £115.98 each	Z30S/1500-BB-SS* £251.97 pair



CRANKED PULL HANDLES (C), BOLT THROUGH (BT) AND BACK TO BACK (BB)						
	19MM DIAMETER		25MM DIAMETER		30MM DIAMETER	
	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK
225MM CRS	Z19C/225-BT-SS* £24.07 each	Z19C/225-BB-SS* £68.17 pair	-	-	-	-
300MM CRS	Z19C/300-BT-SS* £25.93 each	Z19C/300-BB-SS £71.86 pair	Z25C/300-BT-SS £33.81 each	Z25C/300-BB-SS* £87.63 pair	-	-
425/450MM CRS	Z19C/425-BT-SS* £30.29 each	Z19C/425-BB-SS* £80.59 pair	-	-	Z30C/450-BT-SS £52.70 each	Z30C/450-BB-SS* £116.17 pair
600MM CRS	Z19C/600-BT-SS* £35.15 each	Z19C/600-BB-SS* £90.33 pair	Z25C/600-BT-SS £56.20 each	Z25C/600-BB-SS* £132.41 pair	-	-



T-BAR GUARDSMAN PULL HANDLES (G), BOLT THROUGH (BT) AND BACK TO BACK (BB)				
	19MM DIAMETER (16MM DIAMETER LEG)		25MM DIAMETER (22MM DIAMETER LEG)	
	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK
300MM CRS	Z19G/300-BT-SS* 400mm overall length £20.34 each	Z19G/300-BB-SS* 400mm overall length £60.71 pair	Z25G/300-BT-SS* 420mm overall length £30.95 each	Z25G/300-BB-SS* 420mm overall length £81.91 pair
425MM CRS	Z19G/425-BT-SS* 525mm overall length £24.07 each	Z19G/425-BB-SS* 525mm overall length £68.17 pair	Z25G/425-BT-SS* 545mm overall length £40.06 each	Z25G/425-BB-SS* 545mm overall length £100.14 pair
600MM CRS	Z19G/600-BT-SS* 700mm overall length £28.25 each	Z19G/600-BB-SS* 700mm overall length £76.53 pair	Z25G/600-BT-SS* 720mm overall length £47.12 each	Z25G/600-BB-SS* 720mm overall length £114.24 pair
900MM CRS	Z19G/900-BT-SS* 1070mm overall length £50.90 each	Z19G/900-BB-SS* 1070mm overall length £123.76 pair	Z25G/900-BT-SS* 1070mm overall length £62.25 each	Z25G/900-BB-SS* 1070mm overall length £144.53 pair
1200MM CRS	-	-	Z25G/1200-BT-SS* 1370mm overall length £72.17 each	Z25G/1200-BB-SS* 1370mm overall length £164.36 pair
	30MM DIAMETER (25MM DIAMETER LEG)		35MM DIAMETER (30MM DIAMETER LEG)	
	BOLT THROUGH	BACK TO BACK	BOLT THROUGH	BACK TO BACK
600MM CRS	Z30G/600-BT-SS* 770mm overall length £60.71 each	Z30G/600-BB-SS* 770mm overall length £141.46 pair	-	-
900MM CRS	Z30G/900-BT-SS* 1070mm overall length £92.55 each	Z30G/900-BB-SS* 1070mm overall length £205.12 pair	Z35G/900-BT-SS* 1070mm overall length £107.36 each	Z35G/900-BB-SS* 1070mm overall length £234.75 pair
1200MM CRS	Z30G/1200-BT-SS* 1370mm overall length £118.45 each	Z30G/1200-BB-SS* 1370mm overall length £256.92 pair	Z35G/1200-BT-SS* 1370mm overall length £129.84 each	Z35G/1200-BB-SS* 1370mm overall length £281.63 pair
1500MM CRS	Z30G/1500-BT-SS* 1670mm overall length £140.62 each	Z30G/1500-BB-SS* 1670mm overall length £301.27 pair	Z35G/1500-BT-SS* 1670mm overall length £148.07 each	Z35G/1500-BB-SS* 1670mm overall length £316.15 pair
1800MM CRS	-	-	Z35G/1800-BT-SS 1970mm overall length £176.17 each	Z35G/1800-BB-SS* 1970mm overall length £372.35 pair



BOLT THROUGH (BT)



BACK TO BACK (BB)

On-site conversion kit - converts 2 BT pulls to BB on-site (NB. increases projection of pull handles off door 8mm each side).

BTB19 £21.05 pack
BTB25 £21.05 pack
BTB30 £21.05 pack

Not available for 35mm pull handles.

PUSH & KICK PLATES



Z901.1-SAA

Push plate.
330 x 76 x 1.2mm.
Square corners.
Drilled and countersunk.
Satin anodised aluminium.
£2.61 each (Box Qty 10)



Z901.1-SSS

Push plate.
330 x 76 x 1.2mm.
Square corners.
Drilled and countersunk.
Satin stainless steel.
£4.04 each (Box Qty 10)



Z901.2-SAA

Push plate.
300 x 76 x 1.5mm.
Radius corners.
Drilled and countersunk.
Satin anodised aluminium.
£3.00 each (Box Qty 10)

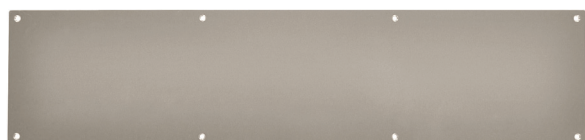


Z901.2-SSS

Push plate.
300 x 76 x 1.5mm.
Radius corners.
Drilled and countersunk.
Satin stainless steel.
£4.53 each (Box Qty 10)



REF	DESCRIPTION	PLAIN PUSH PLATE		DRILLED CENTRALLY FOR PULL HANDLE		UNIT	BOX QTY
		REF	PRICE	REF	PRICE		
425MM PULL HANDLES	Push plate, 501x76x1.5mm, satin stainless steel. Radius corners, 6 fixing holes drilled and csk.	Z901.3-SSS	£20.37	Z901.3-SSS/PH	£20.38	each	10
600MM PULL HANDLES	Push plate, 676x76x1.5mm, satin stainless steel. Radius corners, 8 fixing holes drilled and csk.	Z901.4-SSS	£27.89	Z901.4-SSS/PH	£27.41	each	10
900MM PULL HANDLES	Push plate, 976x76x1.5mm, satin stainless steel. Radius corners, 8 fixing holes drilled & csk.	Z901.5-SSS	£33.11	Z901.5-SSS/PH	£32.70	each	10
1200MM PULL HANDLES	Push plate, 1276x76x1.5mm, satin stainless steel. Radius corners, 10 fixing holes drilled & csk.	Z901.6-SSS	£38.13	Z901.6-SSS/PH	£38.21	each	10
1500MM PULL HANDLES	Push plate, 1576x76x1.5mm, satin stainless steel. Radius corners, 12 fixing holes drilled & csk.	Z901.7-SSS	£43.13	Z901.7-SSS/PH	£42.93	each	10
1800MM PULL HANDLES	Push plate, 1876x76x1.5mm, satin stainless steel. Radius corners, 14 fixing holes drilled & csk.	Z901.8-SSS	£42.92	Z901.8-SSS/PH	£45.42	each	10

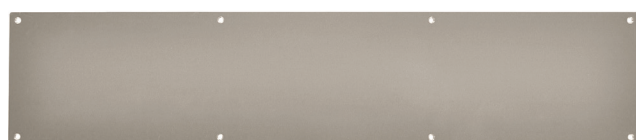


Z902.1-SAA

Kick plate.
826 x 150 x 1.2mm.
Square corners.
Drilled and countersunk.
Satin anodised aluminium.
£11.74 each

Z902.1-SSS

Kick plate.
826 x 150 x 1.2mm.
Square corners.
Drilled and countersunk.
Grade 430 satin stainless steel.
£13.09 each



Z902.2-SAA

Kick plate
914 x 150 x 1.2mm.
Square corners.
Drilled and countersunk.
Satin anodised aluminium.
£13.00 each

Z902.2-SSS

Kick plate
914 x 150 x 1.2mm.
Square corners.
Drilled and countersunk.
Grade 430 satin stainless steel.
£14.49 each

Push plates and kick plates can be manufactured any size to order.
Different thicknesses, material, square or radius corners available. Call for prices.

KICK PLATES MADE TO ORDER (MINIMUM SIZE 350X75MM)

Supplied with square corners, drilled & csk unless requested otherwise

REF	DESCRIPTION	PRICE	UNIT
ZKP113(E)	1.2mm thick Satin Anodised Aluminium 5251	£97.34	m ²
ZKP113	1.5mm thick Satin Anodised Aluminium 5005	£103.62	m ²
ZKP115	3.0mm thick Satin Anodised Aluminium 5005	£169.46	m ²
ZKP127/430	1.2mm thick Satin Stainless Steel Grade 430	£105.22	m ²
ZKP127/304	1.2mm thick Satin Stainless Steel Grade 304	£160.39	m ²
ZKP316/1.2	1.2mm thick Satin Stainless Steel Grade 316	£332.24	m ²
ZKP128/430	1.5mm thick Satin Stainless Steel Grade 430	£133.71	m ²
ZKP128/304	1.5mm thick Satin Stainless Steel Grade 304	£199.78	m ²
ZKP316/1.5	1.5mm thick Satin Stainless Steel Grade 316	£364.93	m ²
ZKP129/430	2.0mm thick Satin Stainless Steel Grade 430	£234.36	m ²
ZKP129/304	2.0mm thick Satin Stainless Steel Grade 304	£306.47	m ²

Radius corners £0.96 extra per plate.

NUMBER OF FIXING HOLES FOR PUSH PLATES AND KICK PLATES.

Based on 10mm centres for top and bottom holes.
Longer plates to have holes no more than 360mm apart.

Plates up to 349mm long - 4 holes (2 on either side).
Plates 350 - 600mm - 6 holes (3 on either side).
Plates 601 - 1100mm - 8 holes (4 on either side).
Plates 1101 - 1460mm - 10 holes (5 on either side).
Plates 1461 - 1820mm - 12 holes (6 on either side).
Plates 1821 - 2180mm - 14 holes (7 on either side).

ARCHITECTURAL DOORSTOPS



Z906.1-SAA

Floor fixing doorstop.
35mm diameter, 26mm projection.
Satin anodised aluminium.
£2.82 each (Box Qty 30)



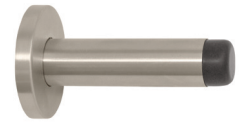
Z906.1-SSS

Floor fixing doorstop.
35mm diameter, 26mm projection.
Satin stainless steel.
£6.73 each (Box Qty 30)



Z906.2-SSS

Wall fixing doorstop.
22mm diameter, 92mm projection.
Satin stainless steel.
£7.40 each (Box Qty 10)



Z906.3-SSS NEW

Wall fixing doorstop.
19mm diameter, 82mm projection.
Satin stainless steel.
£9.37 each (Box Qty 10)



Z906.4-SSS

Floor fixing round doorstop.
44mm diameter, 27mm projection.
Satin stainless steel.
£6.02 each (Box Qty 10)



Z906.5-SSS

Floor fixing doorstop.
30mm diameter, 26mm projection.
Satin stainless steel.
£6.22 each (Box Qty 10)



Z906.6-SSS

Floor fixing doorstop.
35mm diameter, 50mm projection.
Satin stainless steel.
£7.82 each (Box Qty 10)



Z920-SNP

Foot operated door holder.
Satin nickel plated.
£16.02 each (Box Qty 1)

See pages 213-217 and page 231 for more door buffers and holders.

HAT & COAT HOOKS



Z915.1-SSS

Wire pattern coat hook.
Satin stainless steel.
£3.24 each (Box Qty 20)



Z915.2-SSS

Wire pattern hat and coat hook.
Satin stainless steel.
£4.30 each (Box Qty 20)



Z915.3-SSS

Wire pattern hat and coat hook.
Buffered, satin stainless steel.
£4.66 each (Box Qty 20)



Z915.4-SSS

Strip pattern hat and coat hook.
Satin stainless steel.
£5.00 each (Box Qty 20)

STAINLESS STEEL INDICATOR BOLTS



Z904.4W-SSS

Bathroom turn and indicator set.
Satin stainless steel.
Concealed fixing roses, 53mm diameter x 4mm thick.
RED/WHITE indicator on outside.
Emergency release operated by coin or screwdriver.
5mm spindle for use with Z910 mortice indicator bolt.
8mm conversion sleeve for use with bathroom locks.
£16.02 set (Box Qty 5)



Z904.7W-SSS

Bathroom turn and indicator set.
Satin stainless steel.
Concealed fixing roses, 53mm diameter x 7mm thick.
RED/WHITE indicator on outside.
Emergency release operated by coin or screwdriver.
5mm spindle for use with Z910 mortice indicator bolt.
8mm conversion sleeve for use with bathroom locks.
£16.02 set (Box Qty 5)



Z909-SSS

Surface fixing indicator bolt.
Satin stainless steel.
VACANT/ENGAGED indicator on outside.
Can be reversed to show RED/WHITE indicator.
Emergency release operated by coin or screwdriver.
Turning knob on inside locks door and rotates indicator.
Surface fixing frame keep included.
£15.62 each (Box Qty 10)



Z910

Mortice indicator bolt only.
5mm follower, 60mm backset.
For use with Z904.4W-SSS & Z904.7W-SSS.
£9.87 each (Box Qty 10)

SPECIALITY DOOR VIEWERS

TRADITIONAL ADJUSTABLE DOOR VIEWER

ZWS8 metal door viewer adjustable supplied in three telescopic parts to suit various door thicknesses from 25-63mm. Requires 13mm diameter hole in door (timber or metal) and has 16mm outside lens diameter. Look through door viewer to safely identify visitor before opening door. Integral hinged security flap fitted internally. Chrome plated finish as standard.

Diameter: 13mm bore hole, 16mm outside lens.
Viewing angle: 160° vision.
Door thickness: 25-63mm.
Finish: Chrome.
ZWS8 £17.00 each (Box Qty 10)



WIDE ANGLE DOOR VIEWER

ZWS25 extending door viewer supplied in three telescopic parts to suit doors from 25-59mm thick. Designed for unusually thin doors or panels to identify visitor before admission. Integral hinged security flap fitted internally. With 200° extra wide angle of vision for viewing back against door or wall. Chrome plated finish as standard.

Diameter: 13mm bore hole, 24mm outside lens.
Viewing angle: 200° vision.
Door thickness: 25-59mm.
Finish: Chrome.
ZWS25 £34.24 each (Box Qty 10)



EXTENDING DOOR VIEWER FOR THICK DOORS UP TO 124MM THICK

ZWS124 extending door viewer supplied in four telescopic parts to suit doors from 43-124mm thick. Designed for unusually thick doors, panels or partitions to identify visitor before admission. Integral hinged security flap fitted internally. With 200° vision for viewing back against door or wall. Chrome plated finish as standard.

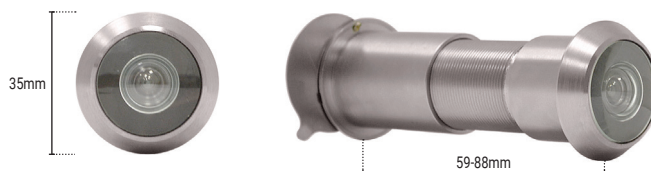
Diameter: 15mm bore hole, 24mm outside lens.
Viewing angle: 200° vision.
Door thickness: 43-124mm.
Finish: Chrome.
ZWS124 £47.54 each (Box Qty 10)



BULLET PROOF DOOR VIEWER - MAGNUM 44

ZWS44 bullet proof door viewer designed to stop rounds from Magnum 44 revolvers, and used on doors to identify callers before admission to secure areas. Very heavy duty metal door viewer with two-part telescopic extending sleeve to suit door thicknesses from 59-88mm. Requires 28mm diameter hole in door. Integral hinged security flap fitted internally. Satin chrome plated finish as standard.

Diameter: 28mm bore hole, 35mm outside lens.
Viewing angle: 150° vision.
Door thickness: 59-88mm.
Finish: Satin chrome.
ZWS44 £391.98 each (Box Qty 1)



ANSI BUDGET DOOR VIEWER 180°

ZDV180 is a two-part extending telescopic satin chrome plated brass door viewer with 180° vision. It has a plastic lens and is adjustable to suit various door thicknesses from 35-51mm. Swing cover available separately if required. Allows identification of caller before admission. Requires 15mm diameter bore hole in door. Conforms to ANSI/BHMA A156, 16 L23172.

Diameter: 15mm bore hole, 24mm outside lens.
Viewing angle: 180° vision.
Door thickness: 35-51mm.
Finish: US26D satin chrome plated.
ZDV180 (viewer) £7.76 each (Box Qty 12)
ZCOV200 (cover) £4.54 each (Box Qty 10)



SLIMSCOPE REMOTE PROXIMITY DOOR VIEWER

Large "fish eye" plastic door viewer, 57mm body diameter to suit doors 18-50mm thick. Offers large view of person outside the door without the need to be in close proximity to the door internally. 132° angle of vision. One way viewing.

Diameter: 58mm bore hole, 74mm outside rose.
Viewing angle: 132° vision.
Door thickness: 18-50mm.
Finish: Silver grey, white or black.
Z460B Silver grey £24.70 each (Box Qty 1)
Z462B White £24.70 each (Box Qty 1)
Z463B Black £24.70 each (Box Qty 1)



This item will be discontinued when stock is sold.

FIRE RATED DOOR VIEWERS

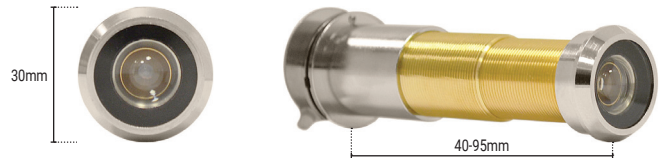
FIRE RATED DOOR VIEWER FOR CASH ROOMS

ZWS9 metal door viewer with three-part extending telescopic sleeved collar to suit various door thicknesses from 40-95mm. Traditionally used on thicker cash room doors requiring very high quality of vision to identify personnel before admission. Requires 28mm diameter hole in door (timber or metal) and has 30mm outside lens diameter. Integral hinged security flap fitted internally. With 160° vision for high security doors. Chrome finish as standard.

Successfully fire tested to BS EN 1634-1:2014 on steel doors up to 240 minutes integrity. Copy of WF Test Report No 354708 available upon request.

Also successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Diameter: 28mm bore hole, 30mm outside lens.
Viewing angle: 160° vision.
Door thickness: 40-95mm.
Finish: Chrome.
ZWS9 £96.53 each (Box Qty 20)



FIRE RATED DOOR VIEWER FOR STEEL DOORS (UL LISTED)

ZDV-UL is a two-part extending telescopic metal door viewer with a glass lens and is adjustable to suit various door thicknesses from 35-60mm. Requires 15mm bore hole in steel door. With 200° vision for high security doors. Swing cover available separately if required. Look through door viewer to safely identify visitor before opening door.

ZDV-UL is suitable for use on previously tested (or assessed by warringtonfire) uninsulated steel doorsets, to provide up to 60 minutes integrity performance if tested in accordance with BS 476-22:1987 or BS EN 1634-1:2000. WF Assessment Report No 303317 Issue 3 and WF Report No 361830 refer. Copy available upon request. UL Listed in USA.

Diameter: 15mm bore hole, 26mm outside lens.
Viewing angle: 200° vision.
Door thickness: 35-60mm.
Finish: US26D satin chrome plated.
ZDV-UL (viewer) £27.44 each (Box Qty 10)
ZCOV200 (cover) £4.54 each (Box Qty 10)

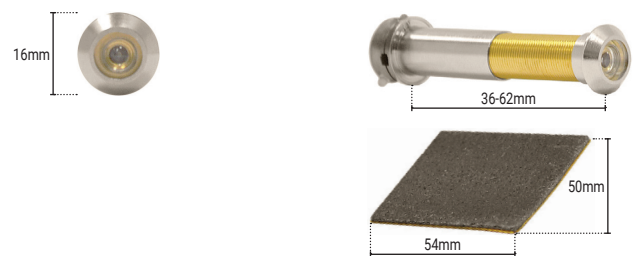


FIRE RATED DOOR VIEWER FOR TIMBER DOORS

ZWS13 metal door viewer in two telescopic parts adjustable to suit various door thicknesses from 36-62mm. Requires 12mm diameter hole in timber door. Integral hinged security flap fitted internally. Look through door viewer to safely identify visitor before opening door. With 160° vision. Chrome finish as standard.

ZWS13 door viewers may be fitted to previously tested (or assessed by warringtonfire) fully insulated timber doorsets, to provide up to 60 minutes integrity performance if tested in accordance with BS 476-22:1987 or BS EN 1634-1:2000. WF Assessment Report No 303317 Issue 3 and WF Report No 361830 refer. Copy available upon request. No intumescent is required on 30 minute doors but a 1mm thick 54 x 50mm intumescent wrap is required on 60 minute doors to provide additional protection, ref ZWS13/WRAP. When using a wrap it will be necessary to increase the bore size to 15mm.

Diameter: 12mm bore hole, 16mm outside lens.
Viewing angle: 160° vision.
Door thickness: 36-62mm.
Finish: Chrome.
ZWS13 £14.46 each (Box Qty 10)
ZWS13/WRAP £2.04 each (Box Qty 10)



BUDGET DOOR VIEWERS

BUDGET CP DOOR VIEWER 180°

ZWL1 is a two-part extending telescopic bright chrome plated brass door viewer with 180° vision. It has a plastic lens and is adjustable to suit various door thicknesses from 35-60mm. Swing cover available separately if required. Allows identification of caller before admission. Requires 15mm diameter bore hole in door. Bright chrome finish as standard.

Diameter: 15mm bore hole, 26mm outside lens.
Viewing angle: 180° vision.
Door thickness: 35-60mm.
Finish: Bright chrome.
ZWL1 (viewer) £5.30 each (Box Qty 20)
ZWLC (cover) £1.00 each (Box Qty 20)



BUDGET SCP DOOR VIEWER 160°

ZDV90 is a two-part extending telescopic satin chrome plated brass door viewer with 160° vision. It has a plastic lens and is adjustable to suit various door thicknesses from 35-51mm. Swing cover available separately if required. Allows identification of caller before admission. Requires 13mm diameter bore hole in door. Conforms to ANSI/BHMA A156, 16 L23172.

Diameter: 13mm bore hole, 15mm outside lens.
Viewing angle: 160° vision.
Door thickness: 35-51mm.
Finish: US26D satin chrome plated.
ZDV90 (viewer) £5.71 each (Box Qty 24)
ZCOV160 (cover) £4.54 each (Box Qty 10)



CARD FRAME HOLDERS

Grade 5005 aluminium and Grade 304 stainless steel card frames, drilled and countersunk four times for fixing to doors or adjacent walls. The room occupant's name card can be inserted within the card frame and easily changed. Type 1 frames are simple card frame holders but Type 2 frames can be engraved and filled black with up to three digits in Helvetica 1 Line font to denote room numbers (extra £1.78 List per digit). Card frames are also available 3mm polished anodised aluminium (PAA), 3mm polished brass (PB) and 2mm polished stainless steel (PSS) to special order - state card size.

TYPE 1 CARD FRAMES ONLY					
ZCF102-SAA	100x75mm, 3mm satin anodised aluminium card frame	£18.36	each	Box Qty 5	
ZCF114-SSS*	100x75mm, 2mm satin stainless steel card frame	£32.55	each	Box Qty 5	

Also available 67x50mm and 133x100mm in PAA, PB & PSS to special order.

TYPE 2 CARD FRAMES WITH SIDE PANEL FOR ENGRAVING					
ZCF202-SAA*	150x75mm, 3mm satin anodised aluminium card frame	£19.20	each	Box Qty 1	
ZCF214-SSS*	150x75mm, 2mm satin stainless steel card frame	£35.05	each	Box Qty 1	

Also available 100x75mm and 200x100mm in PAA, PB & PSS to special order.



SLEEVED LETTER PLATES

NON-FIRE RATED SLEEVED LETTER PLATE

ZP204 Self-attaching sleeved letter plate (two parts). SAA flaps and black plastic frames, with brush internal side to protect against rain and draughts.

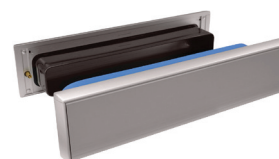
Finish: Silver anodised aluminium flaps and black plastic outer frames.
 Size: 305x67mm overall outside dimension, 260x44mm aperture, complies with BS 2911 and EN 13724:2013-07. Telescopic sleeve suits doors 40mm - 80mm thick.
 Fixings: Supplied complete with through fixing screws. Fixing centres 275mm.
ZP204 £19.04 each (Box Qty 20)



FIRE RATED SLEEVED LETTER PLATE (ON TIMBER DOORS ONLY)

ZP207 Self-attaching fire rated sleeved letter plate (two parts). SAA flaps and robust all aluminium construction. Fire rated liner provides in excess of half hour integrity under BS 476-20/22 on timber doors only. Smoke seals fitted as standard, Certifire approved Certificate No CF 219. Tested with positive pressure and can be located in any area of the door.

Finish: Silver anodised aluminium flaps as standard, other finishes available to order.
 Size: 303x70mm overall outside dimension, 274x58mm aperture complies with BS 2911 and EN 13724:2013-07. Telescopic sleeve suits doors 40mm - 80mm thick.
 Fixings: Supplied complete with through fixing screws.
ZP207 £94.43 each (Box Qty 20)



ELLEN LETTER PLATE DRAUGHT SEALS

PVC letter plate draught seal with draught excluding brush. Designed to fit on the inside of doors fitted with a conventional letter plate externally (i.e. not a sleeved letter plate). Available with or without flap.

Finish: Available in white and brown.
 Size: 82mm high x 340mm wide x 12mm projection.
 Fixings: Pre-drilled to accept screws and easy to fit.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
810201000	BBA letter plate seal, white with flap	£8.28	each	10
810301000	BBA letter plate seal, white without flap	£7.44	each	10
810202000	BBA letter plate seal, brown with flap	£8.28	each	10
810302000	BBA letter plate seal, brown without flap	£7.44	each	10



FIRE RATED ALUMINIUM LETTER PLATES

Aluminium letter plate assembly to suit fire rated doors up to 30 minutes, with fire attack from either face. The set includes external letter plate, internal flap and integral PVC encased intumescent aperture liner. Available to suit doors of different thicknesses; 42-47mm thick, 47-52mm thick and 52-57mm thick. Internal security catch ZLP11-BSS available to order separately, see opposite.

Finish: Satin anodised aluminium. Other finishes available to special order.
 Size: 312x80mm overall outside dimension. Aperture size 250x40mm.
 Fixings: Supplied complete with fixing bolts. To be fitted between 250mm and 1700mm from floor level.
 Fire rating: 30 minutes on timber and steel doors. Certifire approved, Certificate No CF 255.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZLP06-44-SAA	Fire rated letter plate set for 42-47mm thick doors	£79.05	each	1
ZLP06-49-SAA	Fire rated letter plate set for 47-52mm thick doors			
ZLP06-54-SAA*	Fire rated letter plate set for 52-57mm thick doors			



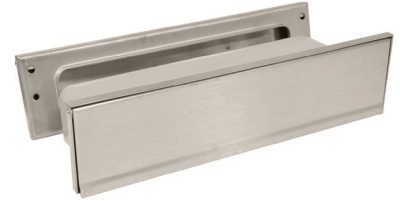
STAINLESS STEEL LETTER PLATE SETS

NON-FIRE RATED

Stainless steel letter plate assembly to suit non-fire rated doors. The set includes external letter plate, internal flap and aperture liner. Available to suit doors of different thicknesses; 42-47mm thick, 47-52mm thick and 52-57mm thick. Internal security catch ZLP11-BSS available to order separately, see below.

Finish: Brushed stainless steel. Other finishes available to special order.
 Size: 312x80mm overall outside dimension. Aperture size 250x40mm.
 Fixings: Supplied complete with fixing bolts.
 Fire rating: Not fire rated.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZLP01-44-BSS	Non-fire rated letter plate set for 42-47mm thick doors	£107.24	each	1
ZLP01-49-BSS*	Non-fire rated letter plate set for 47-52mm thick doors			
ZLP01-54-BSS*	Non-fire rated letter plate set for 52-57mm thick doors			

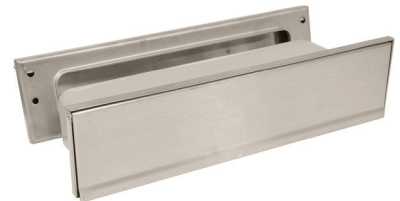


ONE HOUR FIRE RATED

Stainless steel letter plate assembly to suit fire rated doors up to 60 minutes, with fire attack from either face. The set includes external letter plate, internal flap and integral PVC encased intumescent aperture liner. Available to suit doors of different thicknesses; 42-47mm thick, 47-52mm thick and 52-57mm thick. Internal security catch ZLP11-BSS available to order separately, see below.

Finish: Brushed stainless steel. Other finishes available to special order.
 Size: 312x80mm overall outside dimension. Aperture size 250x40mm.
 Fixings: Supplied complete with fixing bolts. To be fitted between 250mm and 1700mm from floor level.
 Fire rating: 60 minutes on timber and steel doors. Certifire approved, Certificate No CF 255.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZLP02-44-BSS	Fire rated letter plate set for 42-47mm thick doors	£130.64	each	1
ZLP02-49-BSS	Fire rated letter plate set for 47-52mm thick doors			
ZLP02-54-BSS	Fire rated letter plate set for 52-57mm thick doors			

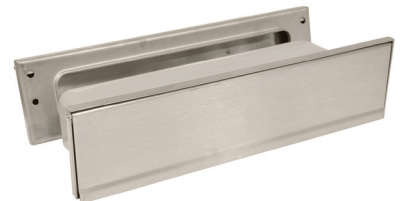


ONE HOUR FIRE & SMOKE RATED

Stainless steel letter plate assembly to suit fire rated doors up to 60 minutes, including smoke seals, with fire attack from either face. This set has been evaluated against BS 476-31.1 for the control of cold smoke and has a leakage rate of 1.5m³/hour/metre of frame crack at 25 Pa. The set includes external letter plate, internal flap, integral PVC encased intumescent aperture liner and smoke seals. Available to suit doors of different thicknesses; 42-47mm thick, 47-52mm thick and 52-57mm thick. Internal security catch ZLP11-BSS available to order separately, see below.

Finish: Brushed stainless steel. Other finishes available to special order.
 Size: 312x80mm overall outside dimension. Aperture size 250x40mm.
 Fixings: Supplied complete with fixing bolts. To be fitted between 250mm and 1700mm from floor level.
 Fire rating: 60 minutes on timber and steel doors. Certifire approved, Certificate No CF 255.
 Sound: Acoustic version available to special order, achieving 31 dB Rw sound reduction. Suffix ref "A", add £16.37 to prices below.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZLP03-44-BSS*	Fire & smoke rated letter plate set for 42-47mm thick doors	£137.92	each	1
ZLP03-49-BSS	Fire & smoke rated letter plate set for 47-52mm thick doors			
ZLP03-54-BSS*	Fire & smoke rated letter plate set for 52-57mm thick doors			



LETTER PLATE ACCESSORIES

ZLP10-BSS

Internal security cowl.
 320x78x57mm.
 Obstructs view from outside, prevents manipulation of locks/bolts, tampering and attack from outside.
 To suit letter plates above.
 £44.94 each (Box Qty 1)



ZLP11-BSS

Internal security catch.
 Secures inner flap in the closed position.
 Rotate to open or close.
 To suit letter plates above.
 £21.90 each (Box Qty 1)



FIRE DOOR SIGNAGE

SATIN STAINLESS STEEL FIRE DOOR DISCS - SCREEN PRINTED BLUE & NATURAL TEXT ON 1.2MM SSS PLATE, SELF-ADHESIVE (SSA) OR DRILLED & CSK (SSD)



ZAF3-1-SSA

Fire door keep shut sign.
76mm diameter.
Self-adhesive back.
£4.19 each



ZAF3-3-SSA

Fire door keep clear sign.
76mm diameter.
Self-adhesive back.
£8.84 each



ZAF3-4-SSA

Fire door keep locked sign.
76mm diameter.
Self-adhesive back.
£4.19 each



ZAF3-18-SSA

Automatic fire door keep clear sign.
76mm diameter.
Self-adhesive back.
£4.19 each



ZAF3-10-SSA

Keep locked shut sign.
76mm diameter.
Self-adhesive back.
£8.84 each



ZAF3-1-SSD

Fire door keep shut sign.
76mm diameter.
Drilled and countersunk.
£4.19 each



ZAF3-3-SSD

Fire door keep clear sign.
76mm diameter.
Drilled and countersunk.
£8.84 each



ZAF3-4-SSD

Fire door keep locked sign.
76mm diameter.
Drilled and countersunk.
£4.19 each



ZAF3-18-SSD

Automatic fire door keep clear sign.
76mm diameter.
Drilled and countersunk.
£4.19 each



ZAF3-24-SSD

Fire escape keep clear sign.
76mm diameter.
Drilled and countersunk.
£8.84 each

BLUE & WHITE FIRE DOOR SIGNAGE - 1MM RIGID PLASTIC DRILLED FOR SCREW FIXING (RPD) OR SELF-ADHESIVE VINYL (SAV)



ZFS112-RPD

Fire door keep shut sign.
80x80mm square.
Drilled rigid plastic.
£1.71 each



ZFS116-RPD

Fire door keep clear sign.
80x80mm square.
Drilled rigid plastic.
£1.71 each



ZFS118-RPD

Fire door keep locked sign.
80x80mm square.
Drilled rigid plastic.
£1.71 each



ZFS132-RPD

Automatic fire door keep clear sign.
80x80mm square.
Drilled rigid plastic.
£1.71 each



ZFS124-RPD

Keep locked shut sign.
80x80mm square.
Drilled rigid plastic.
£1.71 each



ZFS112-SAV

Fire door keep shut sign.
80x80mm square.
Self-adhesive vinyl.
£1.48 each



ZFS116-SAV

Fire door keep clear sign.
80x80mm square.
Self-adhesive vinyl.
£1.48 each



ZFS118-SAV

Fire door keep locked sign.
80x80mm square.
Self-adhesive vinyl.
£1.48 each



ZFS132-SAV

Automatic fire door keep clear sign.
80x80mm square.
Self-adhesive vinyl.
£1.48 each



ZFS124-SAV

Keep locked shut sign.
80x80mm square.
Self-adhesive vinyl.
£1.48 each

ALTERNATIVE WORDING AVAILABLE TO SPECIAL ORDER (PRICES ON APPLICATION)

STAINLESS STEEL	PLASTIC & VINYL	WORDING ON SIGN
ZAF3-1	ZFS112	Fire door keep shut
ZAF3-2*	ZFS114*	Fire door keep closed
ZAF3-3	ZFS116	Fire door keep clear
ZAF3-4	ZFS118	Fire door keep locked
ZAF3-5*	ZFS119*	Fire door keep shut when not in use
ZAF3-6*	ZFS120*	Fire door keep locked shut
ZAF3-7*	ZFS121*	Fire door keep locked shut when not in use
ZAF3-8*	ZFS122*	Fire door to be kept clear at all times
ZAF3-9*	ZFS123*	Fire door keep clear. Close at night
ZAF3-10	ZFS124	Keep locked shut
ZAF3-11*	ZFS125*	Keep locked shut when not in use
ZAF3-12*	ZFS126*	Keep locked when not in use
ZAF3-13*	ZFS127*	Keep shut when not in use
ZAF3-14*	ZFS128*	Keep shut
ZAF3-15*	ZFS129*	Keep locked
ZAF3-16*	ZFS130*	Keep closed at all times
ZAF3-17*	ZFS131*	Automatic fire door keep shut
ZAF3-18	ZFS132	Automatic fire door keep clear

STAINLESS STEEL	PLASTIC & VINYL	WORDING ON SIGN
ZAF3-19*	ZFS133*	Automatic fire door do not obstruct
ZAF3-20*	ZFS134*	Automatic fire door keep clear close at night
ZAF3-21*	ZFS135*	Automatic fire door
ZAF3-22*	ZFS136*	Close this door at night
ZAF3-23*	ZFS137*	Close these doors at night
ZAF3-24	ZFS138*	Fire escape keep clear
ZAF3-25*	ZFS139*	Fire escape light switch
ZAF3-26*	ZFS140*	Fire exit keep clear
ZAF3-27*	ZFS141*	Use only in emergency
ZAF3-28*	ZFS142*	Keep this door closed
ZAF3-29*	ZFS143*	This door to be kept shut
ZAF3-30*	ZFS144*	This door to be kept shut when not in use
ZAF3-31*	ZFS145*	This door to be kept locked shut when not in use
ZAF3-32*	ZFS146*	This door to be kept locked shut
ZAF3-33*	ZFS147*	This door to be kept locked
ZAF3-34*	ZFS148*	This door to be kept unlocked when premises are occupied
ZAF3-35*	ZFS149*	Doors to be kept unlocked during opening hours

TOILET & GENERAL SIGNAGE

SATIN STAINLESS STEEL TOILET SIGNAGE DISCS - SCREEN PRINTED INFILL BLACK ON 1.2MM SSS PLATE, SELF-ADHESIVE (SSA)



ZSP315-SSA
Male symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP316-SSA
Female symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP317-SSA
Wheelchair symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP318-SSA
Unisex symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP362-SSA
Cleaner's store symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP327-SSA
Baby change symbol.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP328-SSA
W.C. sign.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP329-SSA
PUSH sign.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP330-SSA
PULL sign.
76mm diameter.
Self-adhesive back.
£2.78 each



ZSP363-SSA
Ambulant toilet symbol.
76mm diameter.
Self-adhesive back.
£2.78 each

SATIN STAINLESS STEEL TOILET SIGNAGE DISCS - SCREEN PRINTED INFILL BLACK ON 1.2MM SSS PLATE, DRILLED & CSK WITH FIXING SCREWS (SSD)



ZSP315-SSD
Male symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP316-SSD
Female symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP317-SSD
Wheelchair symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP318-SSD
Unisex symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP362-SSD
Cleaner's store symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



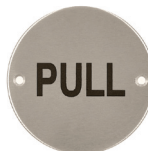
ZSP327-SSD
Baby change symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP328-SSD
W.C. sign.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP329-SSD
PUSH sign.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP330-SSD
PULL sign.
76mm diameter.
Drilled and countersunk.
£2.78 each



ZSP363-SSD
Ambulant toilet symbol.
76mm diameter.
Drilled and countersunk.
£2.78 each

SATIN STAINLESS STEEL TOILET SIGNAGE - SCREEN PRINTED INFILL BLACK ON 1.2MM SSS PLATE, DRILLED & CSK WITH FIXING SCREWS (SSD) (ALSO AVAILABLE SELF-ADHESIVE SSS (SSA) TO SPECIAL ORDER)



ZSP301-SSD
Male symbol.
100x150mm rectangle.
Drilled and countersunk.
£8.26 each



ZSP302-SSD
Female symbol.
100x150mm rectangle.
Drilled and countersunk.
£8.26 each



ZSP303-SSD
Wheelchair symbol.
100x150mm rectangle.
Drilled and countersunk.
£8.26 each



ZSP304-SSD
Unisex symbol.
100x150mm rectangle.
Drilled and countersunk.
£8.26 each

FIXING ABBREVIATIONS:
RPD 1mm rigid plastic,
drilled.
SAV Self-adhesive vinyl.
SSA Satin stainless steel,
self-adhesive.
SSD Satin stainless steel,
drilled and countersunk.

FULL RANGE OF SIGNS AVAILABLE, WITH DIFFERENT WORDING, SYMBOLS AND SIZES - CALL FOR DETAILS.

FIRE & SAFETY SIGNAGE

GREEN & WHITE BS EN ISO 7010: 12+A5:2015 (PREVIOUSLY BS 5499) RUNNING MAN SIGNAGE - 1MM RIGID PLASTIC DRILLED FOR SCREW FIXING (RPD) (ALSO AVAILABLE 0.9MM ALUMINIUM DRILLED FOR SCREW FIXING (ALU) & SELF-ADHESIVE VINYL (SAV) TO SPECIAL ORDER)



ZBS2

Fire exit sign.
450x150mm.
Running man with left arrow.
Green & white.

ZBS2-RPD	£9.16 each
ZBS2-ALU*	£19.36 each
ZBS2-SAV*	£10.16 each

Also ZBS1* 600x200mm
& ZBS3* 300x100mm.



ZBS5

Fire exit sign.
450x150mm.
Running man with right arrow.
Green & white.

ZBS5-RPD	£9.16 each
ZBS5-ALU*	£19.36 each
ZBS5-SAV*	£10.16 each

Also ZBS4* 600x200mm
& ZBS6* 300x100mm.



ZBS8

Fire exit sign.
450x150mm.
Running man with up arrow.
Green & white.

ZBS8-RPD	£9.16 each
ZBS8-ALU*	£19.36 each
ZBS8-SAV*	£10.16 each

Also ZBS7* 600x200mm
& ZBS9* 300x100mm.



ZBS11

Fire exit sign.
450x150mm.
Running man with down arrow.
Green & white.

ZBS11-RPD	£9.16 each
ZBS11-ALU*	£19.36 each
ZBS11-SAV	£10.16 each

Also ZBS10* 600x200mm
& ZBS12* 300x100mm.



ZBS17

Fire exit sign.
450x150mm.
Running man with down left arrow.
Green & white.

ZBS17-RPD	£9.16 each
ZBS17-ALU*	£19.36 each
ZBS17-SAV*	£10.16 each

Also ZBS16* 600x200mm
& ZBS18* 300x100mm.



ZBS20

Fire exit sign.
450x150mm.
Running man with down right arrow.
Green & white.

ZBS20-RPD	£9.16 each
ZBS20-ALU*	£19.36 each
ZBS20-SAV*	£10.16 each

Also ZBS19* 600x200mm
& ZBS21* 300x100mm.



ZBS23

Fire exit sign.
450x150mm.
Running man with up left arrow. Green & white.

ZBS23-RPD	£9.16 each
ZBS23-ALU*	£19.36 each
ZBS23-SAV*	£10.16 each

Also ZBS22* 600x200mm
& ZBS24* 300x100mm.



ZBS26

Fire exit sign.
450x150mm.
Running man with up right arrow. Green & white.

ZBS26-RPD	£9.16 each
ZBS26-ALU*	£19.36 each
ZBS26-SAV*	£10.16 each

Also ZBS25* 600x200mm
& ZBS27* 300x100mm.



ZBS14

Fire exit sign.
300x150mm.
Running man to right, no arrow.
Green & white.

ZBS14-RPD	£6.12 each
ZBS14-ALU*	£14.17 each
ZBS14-SAV*	£6.82 each

Also ZBS13* 400x200mm
& ZBS15* 200x100mm.



ZBS29

Fire exit sign.
300x150mm.
Running man to left, no arrow.
Green & white.

ZBS29-RPD	£6.12 each
ZBS29-ALU*	£14.17 each
ZBS29-SAV*	£6.82 each

Also ZBS28* 400x200mm
& ZBS30* 200x100mm.



ZFS43

Fire exit, Keep clear sign.
300x100mm.
Top half green, bottom half blue.

ZFS43-RPD	£7.50 each
ZFS43-ALU*	£10.83 each
ZFS43-SAV	£5.90 each

Also ZFS42* 600x200mm.



ZFS45

Fire exit only, This door is alarmed sign.
300x100mm.
Top half green, bottom half yellow.

ZFS45-RPD	£7.50 each
ZFS45-ALU*	£10.83 each
ZFS45-SAV*	£5.90 each

Also ZFS44* 600x200mm.



ZFS165

Fire action notice.
200x300mm.
Blue & white.

ZFS165-RPD	£8.37 each
ZFS165-ALU*	£17.58 each
ZFS165-SAV*	£8.65 each

One size only.



ZFS166

Fire action notice.
200x300mm.
Blue, white, red & green.

ZFS166-RPD	£8.37 each
ZFS166-ALU*	£17.58 each
ZFS166-SAV*	£8.65 each

One size only.



ZFS18

Refuge point sign.
300x250mm.
Green & white.

ZFS18-RPD	£8.80 each
ZFS18-ALU*	£18.52 each
ZFS18-SAV*	£7.72 each

One size only.



ZFS19

Refuge point, Keep clear sign.
300x250mm.
Top half green, bottom half blue.

ZFS19-RPD	£8.80 each
ZFS19-ALU*	£18.52 each
ZFS19-SAV*	£7.72 each

One size only.

FULL RANGE OF SIGNS AVAILABLE, WITH DIFFERENT WORDING, SYMBOLS AND SIZES - CALL FOR DETAILS.

FIXING ABBREVIATIONS:

ALU	0.9mm aluminium, drilled.
RPD	1mm rigid plastic, drilled.
SAV	Self-adhesive vinyl.

PUSH TO OPEN SIGNAGE

GREEN & WHITE PANIC BOLT SIGNAGE - 1MM RIGID PLASTIC DRILLED FOR SCREW FIXING (RPD), 0.9MM ALUMINIUM DRILLED FOR SCREW FIXING (ALU) & SELF-ADHESIVE VINYL (SAV)

Push bar to open

A0300.30-SAV

Push bar to open sign.
300x60mm, 27mm high letters.
White letters on green background.
Self-adhesive vinyl.
Supplied as standard with Corni and TESA panic exit devices.
£2.96 each

Push pad to open

A0300.40-SAV

Push pad to open sign.
300x60mm, 27mm high letters.
White letters on green background.
Self-adhesive vinyl.
Supplied as standard with Corni emergency exit devices.
£2.96 each

✓ Push bar to open

376/330/00-SAV

Push bar to open sign with tick on LH side.
500x90mm, 35mm high letters.
White letters on green background.
Self-adhesive vinyl.
Supplied as standard with Briton panic exit devices.
£7.05 each

Push bar to open

ZFS24

Push bar to open sign.
600x100mm, 43mm high letters.
White letters on green background with white border.
ZFS24-RPD* rigid plastic drilled £8.32 each
ZFS24-ALU* aluminium drilled £17.55 each
ZFS24-SAV* self-adhesive vinyl £7.87 each

Push bar to open

ZFS25

Push bar to open sign.
300x50mm, 23mm high letters.
White letters on green background with white border.
ZFS25-RPD* rigid plastic drilled £6.27 each
ZFS25-ALU* aluminium drilled £8.08 each
ZFS25-SAV* self-adhesive vinyl £4.26 each

✓ Push bar to open

ZFS22

Push bar to open sign with tick on LH side.
600x100mm, 43mm high letters.
White letters on green background with white border.
ZFS22-RPD* rigid plastic drilled £8.32 each
ZFS22-ALU* aluminium drilled £17.55 each
ZFS22-SAV* self-adhesive vinyl £7.87 each

✓ Push bar to open

ZFS23

Push bar to open sign with tick on LH side.
300x50mm, 23mm high letters.
White letters on green background with white border.
ZFS23-RPD* rigid plastic drilled £6.27 each
ZFS23-ALU* aluminium drilled £8.08 each
ZFS23-SAV* self-adhesive vinyl £4.26 each

✓ Push pad to open

ZFS27

Push pad to open sign with tick on LH side.
300x50mm, 23mm high letters.
White letters on green background with white border.
ZFS27-RPD* rigid plastic drilled £6.27 each
ZFS27-ALU* aluminium drilled £8.08 each
ZFS27-SAV* self-adhesive vinyl £4.26 each

✓ Push bar to open

ZPH35

Push bar to open sign with tick on LH side.
600x100mm, 43mm high letters.
Photoluminescent, yellow/white letters on green background with yellow/white border.
ZPH35-RPD* rigid plastic drilled £18.54 each
ZPH35-SAV* self-adhesive vinyl £17.62 each

LEADING EDGE FIRE DOOR SIGNAGE

LOLLIPOP SIGNS - SELF-ADHESIVE VINYL STICKERS, SCREEN PRINTED BLUE ON WHITE (PRICED EACH BUT PACKED IN TENS)

FIRE DOOR KEEP SHUT

ZLE1-SAV

Fire door keep shut sign.
For leading edge mount.
13x150mm.
Self-adhesive vinyl.
£6.51 each

FIRE DOOR KEEP LOCKED SHUT

ZLE2-SAV

Fire door keep locked sign.
For leading edge mount.
13x150mm.
Self-adhesive vinyl.
£6.51 each

FIRE DOOR KEEP LOCKED SHUT

ZLE3-SAV

Fire door keep locked shut sign.
For leading edge mount.
13x175mm.
Self-adhesive vinyl.
£7.51 each

AUTOMATIC FIRE DOOR KEEP CLEAR

ZLE4-SAV

Automatic fire door keep clear sign.
For leading edge mount.
13x175mm.
Self-adhesive vinyl.
£7.51 each

! FIRE DOOR KEEP SHUT

ZLE5-SAV

Fire door keep shut sign.
For leading edge mount.
13x150mm including white border and exclamation mark.
Self-adhesive vinyl.
£6.51 each

! FIRE DOOR KEEP LOCKED SHUT

ZLE6-SAV

Fire door keep locked sign.
For leading edge mount.
13x150mm including white border and exclamation mark.
Self-adhesive vinyl.
£6.51 each

! FIRE DOOR KEEP LOCKED SHUT

ZLE7-SAV

Fire door keep locked shut sign.
For leading edge mount.
13x175mm including white border and exclamation mark.
Self-adhesive vinyl.
£7.51 each

! AUTOMATIC FIRE DOOR KEEP CLEAR

ZLE8-SAV

Automatic fire door keep clear sign.
For leading edge mount.
13x175mm including white border and exclamation mark.
Self-adhesive vinyl.
£7.51 each

CORNI MINISTAR 429 RIM PANIC EXIT DEVICES

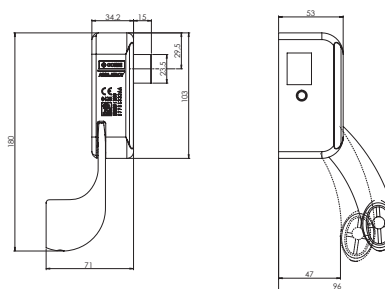


During 2014 the MAB EXIT1000 Series was phased out by ASSA ABLOY and the CORNI MINISTAR 429 is the direct replacement, with many design improvements but still using the same modular approach to components as the MAB EXIT1000 Series. It should be noted that latch kits are now supplied separately from vertical rods, but the rods do now include steel covers as standard. Pullman latches are now stainless steel and latch mechanisms have mild steel covers as standard. The OAD is now based on a lever handle, but a simple euro cylinder with escutcheon is available for fitting externally on low-traffic doors.

CORNI MINISTAR 429 is a complete modular range of surface mounted push-bar panic exit devices manufactured by ASSA ABLOY Italia S.p.A. The panic latch patterns use the same modular transformation kits of vertical rods and latches. An added bonus is that the same transformation kits are used with the CORNI MINIPAD 423 range on page 176 and the CORNI TOUCH 445 touch-bar range on page 178. This modularity helps to reduce customers' stock levels. Single panic bolts are supplied with three point locking as standard; top, bottom and central. These may be converted to two point locking top and bottom by the use of a blanking plate to nullify the central latch if required. CORNI MINISTAR 429 is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu.

Different latch kits offer the option for both pullman latches to shoot vertically top and bottom, or shoot horizontally (making three horizontal latches at the top, middle and bottom), or with one pullman latch shooting vertically and one shooting horizontally (although this makes the unit handed). A horizontal shooting bottom latch avoids the need to drill the threshold and eases installation. The range conforms to the European standard EN 1125:2008 on panic exit devices, is CE marked, and is suitable for use on fire rated doors. The standard finish is black, with the exception of the cross-bars which can be supplied red or real satin stainless steel as an option at extra cost.

The "Jolly" lever handle outside access device is easily and quickly installed, and is supplied with a 40mm long euro-profile standard differ single cylinder, but can be supplied keyed alike or master keyed to special order. By simply removing the screws in the back of the unit prior to installation, customers can replace the standard differ cylinder with their own master keyed cylinder without the need for any drilling. The "Jolly" handle is available in one function only, (similar to the function of the MAB A0416.30), and the key can be taken away and the door left unlocked for free access. Simple external euro cylinder and escutcheon kits available for occasional key access, details on page 188.



- CE Marking:** CE Marked. Classification **[3]77[B]1422[A]A** (now Grade 4 240 hours salt).
- Standards:** Conforms to EN 1125:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and 1320mm wide. Type A with push-bar operation. Projection of the device from the door surface less than 100mm (Class 2), 96mm actual. Tested to 200,000 cycles. ICIM Product Certificate No 149AD/0. Certificate of Conformity No 0425-CPD-2478. Copies available on request. Refer to our website for DoP No PED0008.
- Fire:** Suitable for use on fire and smoke door assemblies.
- Construction:** Stainless steel latch bolts, steel mechanism, steel rods and steel rod covers. Mazak arms and steel cross bar.
- Corrosion:** "Jolly" OAD also independently successfully tested to Grade 4 of BS EN 1670:2007 (240 hours neutral salt spray). Report No WIL 392103 refers.
- Finish:** Standard finish black but oval cross bar available red or real stainless steel. Different body colours may be available to special order depending on quantity, including grey (GR), white (WH), chrome (CR) and gold (AU). Also available simulated stainless steel (IN) to special order.
- Handing:** Reversible, non-handed centre latch mechanism. Handed if supplied with micro-switch. Suitable for single leaf doors or pairs of doors, active or inactive leaf.
- Sizes:** Standard vertical rods suit doors up to 2200mm high and 900mm cross bar suits doors up to 1200mm wide. 3000mm vertical rods and 1500mm cross bar available. Cross bars should be cut as close to the opening width as possible but not less than 60% of the opening width.
- Installation:** Easy installation on very narrow profiles without any backplate. Full fitting details and fixings supplied. Recommended bar height 900-1100mm from FFL. Steel latch strike plate included with four spacer shims. Nylon blanking plates and "Jolly" handle adapter included.
- OAD:** Optional external "Jolly" handle OAD suitable for door thickness up to 82mm if outside access is required. The key can be taken away leaving the OAD unlocked and allowing free access from outside. Simple single cylinder kits with escutcheon also available for doors up to 60mm thick (see page 188). Key blanks available ref N0180044800 £2.35 each.
- Modularity:** Modular latch/rods transformation kits for one, two or three locking points. The same kits operate with MINIPAD 423 and TOUCH 445.
- Signage:** Supplied with free issue "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive.
- Micro-switch:** Available with micro-switch to special order to detect when device is operated or to work with a delayed egress system: advise right or left hand. Must be ordered complete.
- CAD drawing:** Please contact us for details. DXF format CAD files available.
- Accessories:** All components listed on pages 186-190. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.

ONE POINT LOCKING



CP1040.00

TWO POINT LOCKING (central side latch nullified)



CP1240.0Z

THREE POINT LOCKING



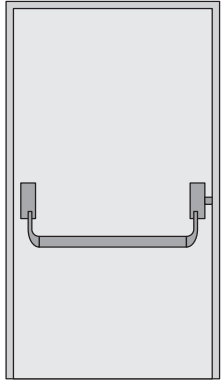
CP1240.0Z

HORIZONTAL LEVER (OAD)



N04480 08 000
(see price on page 188)

CORNI MINISTAR 429 RIM PANIC EXIT DEVICES



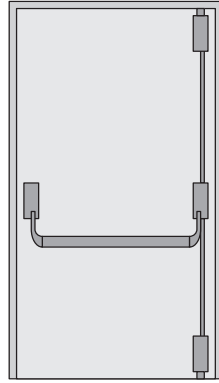
SINGLE PANIC LATCH

With standard side latch
(all components black)
Ref. **CP1040.00**

Comprising:
N42906 00 000
centre latch mech & idler
NPAM26 00 01 12
cross bar, 900mm
£77.49 set



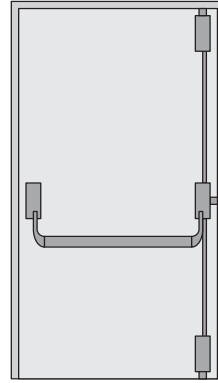
ASSA ABLOY



SINGLE PANIC BOLT (2 POINT)

Using vertical top & bottom latches
with central side latch nullified
(all components black)
Ref. **CP1240.0Z**

Comprising:
N42906 00 000
centre latch mech & idler
NPAM26 00 01 12
cross bar, 900mm
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£113.66 set

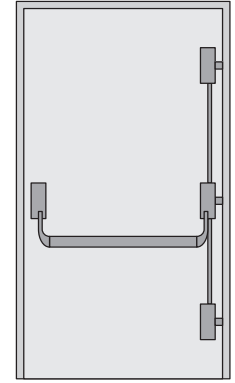


SINGLE PANIC BOLT (3 POINT)

Using top, bottom & central latches
with central side latch active
(all components black)
Ref. **CP1240.0Z**

Comprising:
N42906 00 000
centre latch mech & idler
NPAM26 00 01 12
cross bar, 900mm
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£113.66 set

CP0223.30

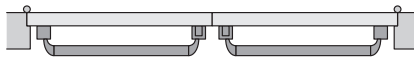
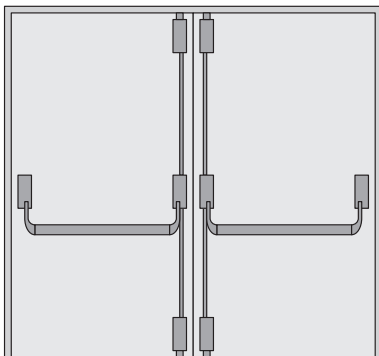


SINGLE PANIC BOLT (3 POINT)

Using three side latches
with central side latch active
(all components black)
Ref. **CP1246.0Z**

Comprising:
N42906 00 000
centre latch mech & idler
NPAM26 00 01 12
cross bar, 900mm
N03429 00 050
horizontal pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£127.15 set

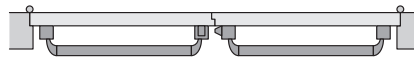
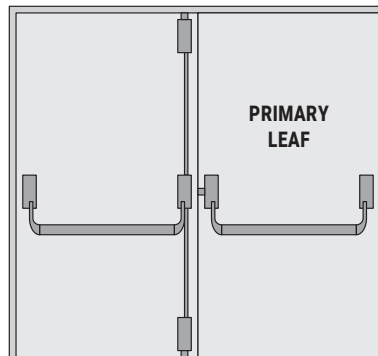
CP0273.30



DOUBLE DOOR PANIC BOLT SET

Plain meeting stiles
with both central side latches nullified
(all components black)
Ref. **CP2480.0Z**

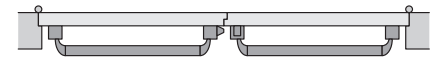
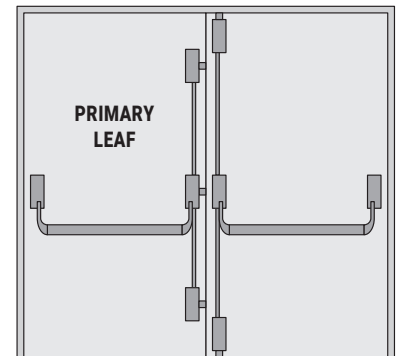
Comprising: (2 x **CP1240.0Z**)
2 x **N42906 00 000** centre latch mech & idler
2 x **NPAM26 00 01 12** cross bar, 900mm
2 x **N03429 00 000** vertical pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm
£227.51 set



DOUBLE DOOR PANIC BOLT SET

Standard set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CP2481.0Z**

Comprising: (**CP1240.0Z** + **CP1040.00**)
2 x **N42906 00 000** centre latch mech & idler
2 x **NPAM26 00 01 12** cross bar, 900mm
1 x **N03429 00 000** vertical pullman latch kit
1 x **N04444 00 000** vertical rods & covers, 2200mm
£191.15 set



DOUBLE DOOR PANIC BOLT SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CP2482.0Z**

Comprising: (**CP1240.0Z** + **CP1246.0Z**)
2 x **N42906 00 000** centre latch mech & idler
2 x **NPAM26 00 01 12** cross bar, 900mm
1 x **N03429 00 000** vertical pullman latch kit
1 x **N03429 00 050** horizontal pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm
£240.00 set

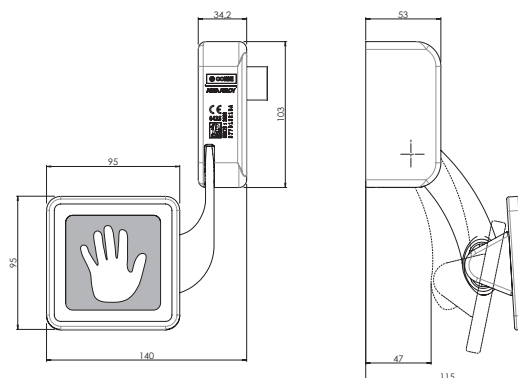
CORNI MINIPAD 423 EMERGENCY EXIT DEVICES



CORNI MINIPAD 423 is a surface mounted emergency exit device operated by a push-pad manufactured by ASSA ABLOY Italia S.p.A. It utilises the same modular transformation kits that are used with the CORNI MINISTAR 429 range on page 174 and the CORNI TOUCH 445 touch-bar range on page 178. This modularity helps to reduce customers' stock levels. The range has stainless steel pullman latches as standard, and single bolts are supplied with three point locking as standard; top, bottom and central. These may be converted to two point locking top and bottom by the use of a blanking plate to nullify the central latch if required. CORNI MINIPAD 423 is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu.

Different latch kits offer the option for both pullman latches to shoot vertically top and bottom, or shoot horizontally (making three horizontal latches at the top, middle and bottom), or with one pullman latch shooting vertically and one shooting horizontally. A horizontal shooting bottom latch avoids the need to drill the threshold and eases installation. The range conforms to the European standard EN 179:2008 on emergency exit devices, is CE marked, and is suitable for use on fire rated doors. The standard finish is black body with green and white pad.

The "Jolly" lever handle outside access device is easily and quickly installed, and is supplied with a 40mm long euro-profile standard differ single cylinder, but can be supplied keyed alike or master keyed to special order. By simply removing the screws in the back of the unit prior to installation, customers can replace the standard differ cylinder with their own master keyed cylinder without the need for any drilling. The "Jolly" handle is available in one function only and the key can be taken away and the door left unlocked for free access. Simple external euro cylinder and escutcheon kits are available for low-traffic doors, details on page 188.



- CE Marking:** CE Marked. Classification [3]7[7]B[1]4[2]1[B]A (now Grade 4 240 hours salt).
- Standards:** Conforms to EN 179:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and 1320mm wide. Type B with push-pad operation. Projection of the device from the door surface less than 150mm (Class 1), 115mm actual. Tested to 200,000 cycles. ICIM Product Certificate No 090BD/0. Certificate of Conformity No 0425-CPD-2540. Copies available on request. Refer to our website for DoP No EED0001.
- Fire:** Suitable for use on fire and smoke door assemblies.
- Corrosion:** "Jolly" OAD also independently successfully tested to Grade 4 of BS EN 1670:2007 (240 hours neutral salt spray). Report No WIL 392103 refers.
- Construction:** Stainless steel latch bolt, steel mechanism, steel rods and steel covers. Black push-pad in nylon with glass fibre added. Mazak arm.
- Finish:** Standard body finish black. Pad has white hand on green background.
- Handing:** Minipad latch mechanism is handed; please specify LH or RH when ordering. Photographs on this page show LH. Suitable for single leaf doors or pairs of doors, active or inactive leaf.
- Sizes:** Pad measures 95mm square. Standard vertical rods suit doors up to 2200mm high, but 3000mm rods available.
- Installation:** Easy installation on very narrow profiles without any backplate. Full fitting details and fixings supplied. Recommended pad height 900-1100mm from FFL. Steel latch strike plate included with four spacer shims. "Jolly" handle adapter included.
- OAD:** Optional external "Jolly" handle OAD suitable for door thickness up to 82mm if outside access is required. The key can be taken away leaving the OAD unlocked and allowing free access from outside. Simple single cylinder kits with escutcheon also available for doors up to 60mm thick (see page 188). Key blanks available ref N0180044800 £2.35 each.
- Modularity:** Modular latch/rods transformation kits for one, two or three locking points. The same kits operate with MINISTAR 429 and TOUCH 445.
- Signage:** Supplied with free issue "PUSH PAD TO OPEN" sign, 300x60mm, white on green self-adhesive.
- Dogging device:** Not available with dogging device.
- Micro-switch:** Not available with micro-switch.
- CAD drawing:** Please contact us for details. DXF format CAD files available.
- Accessories:** All components listed on pages 186-190. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.

ONE POINT LOCKING



CM1040.00

TWO POINT LOCKING (central side latch nullified)



CM1240.0Z

THREE POINT LOCKING



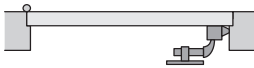
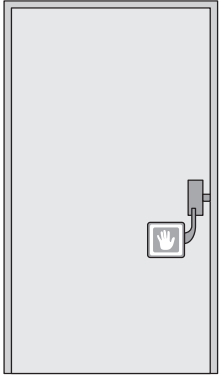
CM1240.0Z

HORIZONTAL LEVER (OAD)



N04480 08 000
(see price on page 188)

CORNI MINIPAD 423 EMERGENCY EXIT DEVICES



MINIPAD PUSH-PAD

With standard side latch
(black with green & white pad)
Ref. **CM1040.00**
(RH illustrated)

Comprising:

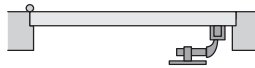
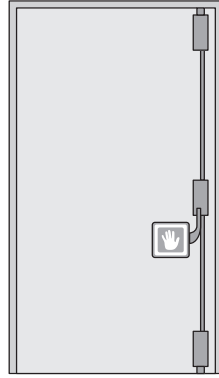
N42306 00 100Z RH
push-pad latch mech (RH)
OR

N42306 00 200Z LH
push-pad latch mech (LH)

£87.45 set



ASSA ABLOY



SINGLE DOOR SET (2 POINT)

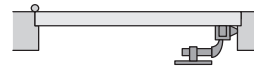
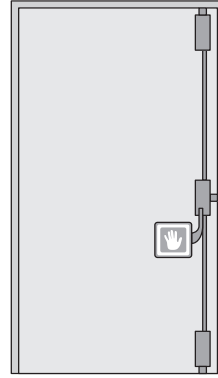
Using vertical top & bottom latches
with central side latch nullified
(black with green & white pad)
Ref. **CM1240.0Z**
(RH illustrated)

Comprising:

N42306 00 100Z/200Z RH/LH
push-pad latch mech (advise hand)
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm

£119.10 set

CP0223.30



SINGLE DOOR SET (3 POINT)

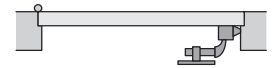
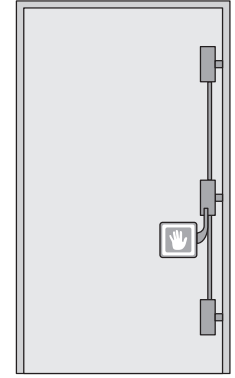
Using top, bottom & central latches
with central side latch active
(black with green & white pad)
Ref. **CM1240.0Z**
(RH illustrated)

Comprising:

N42306 00 100Z/200Z RH/LH
push-pad latch mech (advise hand)
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm

£119.10 set

CP0273.30



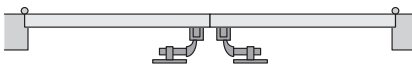
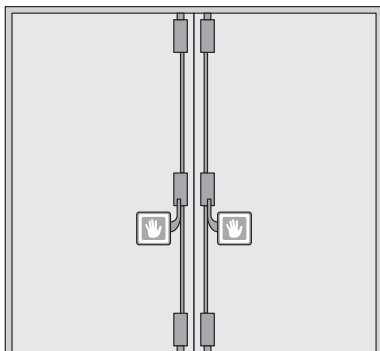
SINGLE DOOR SET (3 POINT)

Using three side latches
with central side latch active
(black with green & white pad)
Ref. **CM1246.0Z**
(RH illustrated)

Comprising:

N42306 00 100Z/200Z RH/LH
push-pad latch mech (advise hand)
N03429 00 050
horizontal pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm

£132.59 set



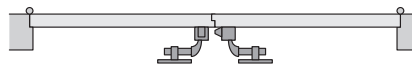
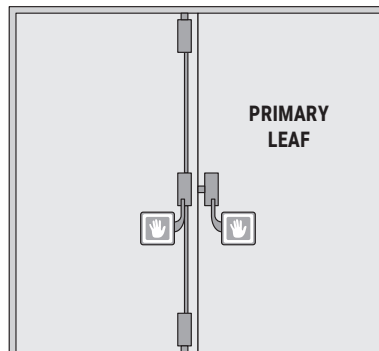
DOUBLE DOOR SET

Plain meeting stiles with both central side
latches nullified
(black with green & white pads)
Ref. **CM2480.0Z**

Comprising: (2 x **CM1240.0Z**)

1 x **N42306 00 100Z** push-pad latch mech (RH)
1 x **N42306 00 200Z** push-pad latch mech (LH)
2 x **N03429 00 000** vertical pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm

£238.20 set



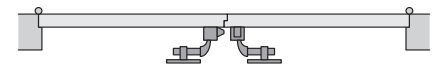
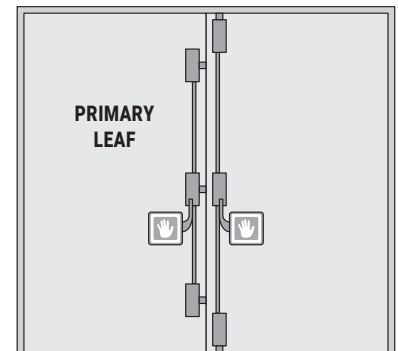
DOUBLE DOOR SET

Standard set for rebated meeting stiles or astragal
with one central side latch nullified
(black with green & white pads)
Ref. **CM2481.0Z**

Comprising: (**CM1240.0Z** + **CM1040.00**)

1 x **N42306 00 100Z** push-pad latch mech (RH)
1 x **N42306 00 200Z** push-pad latch mech (LH)
1 x **N03429 00 000** vertical pullman latch kit
1 x **N04444 00 000** vertical rods & covers, 2200mm

£206.55 set



DOUBLE DOOR SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified
(black with green & white pads)
Ref. **CM2482.0Z**

Comprising: (**CM1240.0Z** + **CM1246.0Z**)

1 x **N42306 00 100Z** push-pad latch mech (RH)
1 x **N42306 00 200Z** push-pad latch mech (LH)
1 x **N03429 00 000** vertical pullman latch kit
1 x **N03429 00 050** horizontal pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm

£251.70 set

FULL BREAKDOWN OF COMPONENT PRICES INCLUDING "JOLLY" HANDLE OAD ON PAGES 186-190

CM = CORNI MINIPAD

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

WWW.ZEROPLUS.CO.UK
TEL: +44 (0)1785 282910

CORNI TOUCH 445 PANIC EXIT DEVICES

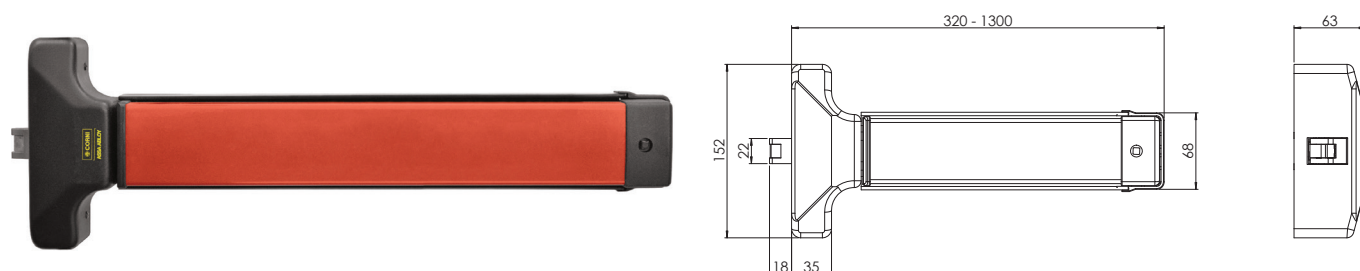


CORNI TOUCH 445 is a complete modular range of surface mounted touch-bar panic exit devices manufactured by ASSA ABLOY Italia S.p.A. The panic latch patterns have anti-thrust bolts and use the same modular transformation kits of vertical rods and latches. An added bonus is that the same modular transformation kits are used with the CORNI MINISTAR 429 push-bar range on page 174 and the CORNI MINIPAD 423 range on page 176. This modularity helps to reduce customers' stock levels. The range has stainless steel pullman latches as standard, and single panic bolts are supplied with three point locking as standard; top, bottom and central. These may be converted to two point locking top and bottom by the use of a blanking plate to nullify the central latch if required. CORNI TOUCH 445 is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu.

Different latch kits offer the option for both pullman latches to shoot vertically top and bottom, or shoot horizontally (making three horizontal latches at the top, middle and bottom), or with one pullman latch shooting vertically and one shooting horizontally (although this makes the unit handed). A horizontal shooting bottom latch avoids the need to drill the threshold and eases installation. The range conforms to the European standard EN 1125:2008 on panic exit devices, is CE marked, and is suitable for use on fire rated doors.

Latchbolts are stainless steel and latchbolt covers mild steel as standard. The standard finish is black, with the exception of the touch-bars which are supplied red (RAL3000) as standard but are available in other finishes to special order depending on quantity.

The "Jolly" lever handle outside access device is easily and quickly installed, and is supplied with a 40mm long euro-profile standard differ single cylinder, but can be supplied keyed alike or master keyed to special order. By simply removing the screws in the back of the unit prior to installation, customers can replace the standard differ cylinder with their own master keyed cylinder without the need for any drilling. The "Jolly" handle is available in one function only and the key can be taken away and the door left unlocked for free access. There is an alternative set of lever handle on backplate with extended euro cylinder, or a simple single external cylinder and escutcheon kit for occasional key access, details on page 188.



- CE Marking:** CE Marked. Classification **[3][7][7][B][1][3][2][2][B][A]**
- Standards:** Conforms to EN 1125:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and 1320mm wide. Type B with touch-bar operation. Projection of the device from the door surface less than 100mm (Class 2), 63mm actual. Tested to 200,000 cycles. ICIM Product Certificate No 049AD/3. Certificate of Conformity No 0602-CPD-2009. Copies available on request. Refer to our website for DoP No PED0020.
- Fire:** Approved for use on fire and smoke door assemblies.
- Corrosion:** "Jolly" OAD independently successfully tested to Grade 4 of BS EN 1670:2007 (240 hours neutral salt spray). Report No WIL 392103 refers.
- Construction:** Stainless steel latch bolts, steel mechanism, steel rods and steel covers. Aluminium touch-bar.
- Finish:** Standard finish black body and red touch-bar RAL3000. Touch-bar also available white, black, green or anodised silver to special order depending on quantity.
- Handing:** Reversible, non-handed mechanism. Suitable for single leaf doors or pairs of doors, active or inactive leaf.
- Sizes:** Standard vertical rods suit doors up to 2200mm high but 3000mm rods available. Standard mechanism width 840mm to suit doors 650-850mm (max cut 200mm), and 1300mm wide to suit doors 850-1310mm (max cut 460mm) (cut to size on site). Other sizes available to special order to suit doors 350-1310mm wide. Touch bars should be cut as close to the opening width as possible but not less than 60% of the opening width.
- Installation:** Easy installation. Full fitting details and fixings supplied. Recommended bar height 900-1100mm from FFL. Steel latch strike plate and four plastic spacer shims included.
- OAD:** Optional external "Jolly" handle OAD suitable for door thickness up to 82mm (key can be taken away leaving the OAD unlocked and leaving free access from outside). Alternative sets of lever handle on backplate with extended euro cylinder or simple single cylinder and escutcheon for doors up to 60mm thick for use on low-traffic doors. See page 190. Key blanks available ref N0180044800 £2.35 each.
- Modularity:** Modular latch/rods transformation kits for one, two or three locking points. The same kits operate with MINISTAR 429 and MINIPAD 423.
- Signage:** Supplied with free issue "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive.
- Dogging device:** Supplied with dogging device as standard. Dogging devices should not be used on fire rated doors.
- Micro-switch:** Available with micro-switch to special order. This is used to detect when the device is operated, or used as part of a delayed egress system.
- CAD drawing:** Please contact us for details. DXF format CAD files available.
- Accessories:** All components listed on pages 186-190. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.

ONE POINT LOCKING



CT1040.00

TWO POINT LOCKING (central side latch nullified)



CT1240.0Z

THREE POINT LOCKING

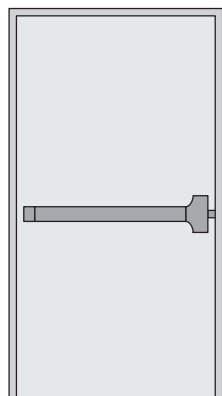


CT1240.0Z

HORIZONTAL LEVER (OAD)


N04480 08 000
(see price on page 188)

CORNI TOUCH 445 PANIC EXIT DEVICES



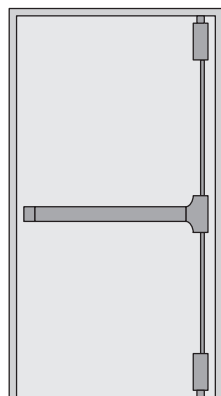
SINGLE PANIC LATCH

With standard side latch
(black body, red touch-bar)
Ref. **CT1040.00**

Comprising:
N44505 84 000
touch-bar latch mech, 840mm
£174.53 set

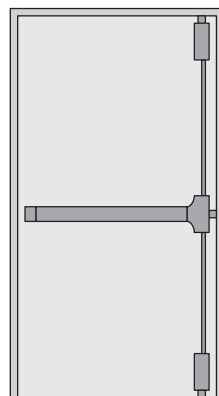


ASSA ABLOY



SINGLE PANIC BOLT (2 POINT)
Using vertical top & bottom latches
with central side latch nullified
(black body, red touch-bar)
Ref. **CT1240.0Z**

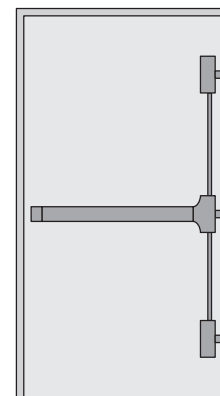
Comprising:
N44505 84 000
touch-bar latch mech, 840mm
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£210.70 set



SINGLE PANIC BOLT (3 POINT)
Using top, bottom & central latches
with central side latch active
(black body, red touch-bar)
Ref. **CT1240.0Z**

Comprising:
N44505 84 000
touch-bar latch mech, 840mm
N03429 00 000
vertical pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£210.70 set

CP0223.30

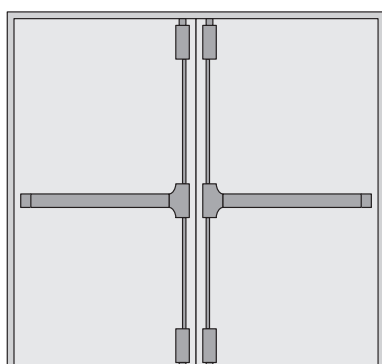


SINGLE PANIC BOLT (3 POINT)
Using three side latches
with central side latch active
(black body, red touch-bar)
Ref. **CT1246.0Z**

Comprising:
N44505 84 000
touch-bar latch mech, 840mm
N03429 00 050
horizontal pullman latch kit
N04444 00 000
vertical rods & covers, 2200mm
£224.19 set

CP0273.30

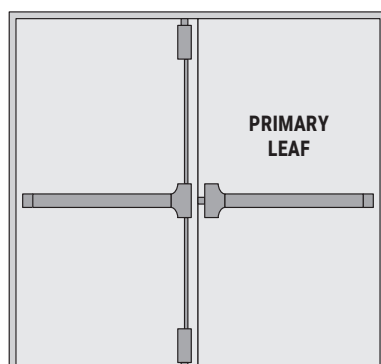
REF	MECH WIDTH	DOOR WIDTH	MAX CUT-DOWN
N44505 32 000*	320mm	up to 400mm	cannot be cut
N44505 64 000*	640mm	500-650mm	150mm
N44505 84 000	840mm	650-850mm	200mm
N44505 11 000*	1140mm	850-1150mm	300mm
N44505 13 000	1300mm	850-1310mm	460mm



DOUBLE DOOR PANIC BOLT SET

Plain meeting stiles
with both central side latches nullified
(black body, red touch-bars)
Ref. **CT2480.0Z**

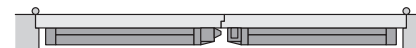
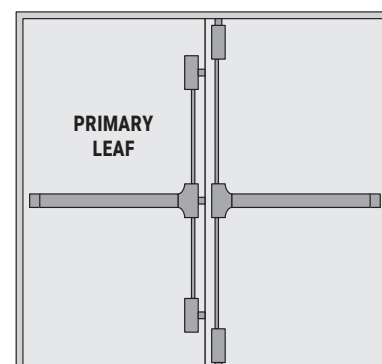
Comprising: (2 x **CT1240.0Z**)
2 x **N44505 84 000** touch-bar latch mech, 840mm
2 x **N03429 00 000** vertical pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm
£421.40 set



DOUBLE DOOR PANIC BOLT SET

Standard set for rebated meeting stiles or astragal
with one central side latch nullified
(black body, red touch-bars)
Ref. **CT2481.0Z**

Comprising: (**CT1240.0Z** + **CT1040.00**)
2 x **N44505 84 000** touch-bar latch mech, 840mm
1 x **N03429 00 000** vertical pullman latch kit
1 x **N04444 00 000** vertical rods & covers, 2200mm
£385.23 set



DOUBLE DOOR PANIC BOLT SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified
(black body, red touch-bars)
Ref. **CT2482.0Z**

Comprising: (**CT1240.0Z** + **CT1246.0Z**)
2 x **N44505 84 000** touch-bar latch mech, 840mm
1 x **N03429 00 000** vertical pullman latch kit
1 x **N03429 00 050** horizontal pullman latch kit
2 x **N04444 00 000** vertical rods & covers, 2200mm
£434.89 set

FULL BREAKDOWN OF COMPONENT PRICES INCLUDING "JOLLY" HANDLE OAD ON PAGES 186-190

CT = CORNI TOUCH

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

WWW.ZEROPLUS.CO.UK
TEL: +44 (0)1785 282910

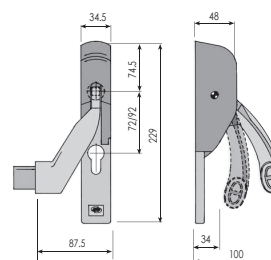
CORNI EUROSMART MORTICE PANIC EXIT DEVICES



The CORNI EUROSMART is a mortice panic exit device manufactured by ASSA ABLOY Italia S.p.A. suitable for single leaf and double leaf doors. It is specifically designed for use on steel fire-rated doors. On a single leaf door the reversible mortice panic lock case is fitted in the leading edge of the door and the panic exit device with crossbar is mounted on the inside face of the door. Three cover plates are supplied and used as required; 72mm or 92mm centres for euro cylinder, and blind cover plate for no cylinder. Vertical rods cannot be fitted on a single leaf.

On double leaf pairs of doors the primary leaf is fitted with EUROSMART hardware as above but a reversible panic counter-lock will also be required morticed into the edge of the secondary leaf. This has a receiving strike inserted in the forend that accommodates the latchbolt of the panic lock in the primary leaf. Concealed vertical rods are fitted to the counter-lock case in the secondary leaf to secure the secondary leaf top and bottom. Rods may be cut to size on site and both rods have a 60mm long x 10mm diameter tapered bullet tip. A re-latching device may be fitted at the top of the secondary leaf to receive the top rod. This should be ordered separately.

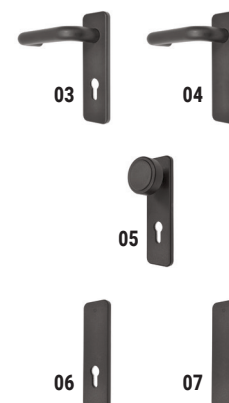
The PAM21 series of levers and knobs on backplate are an essential part of this system and must be ordered as they include the spindles to operate the panic exit device. The plate measures 165x46mm and is 8mm thick. They are supplied with necessary spindles, also a rod with plug to regulate the spindle. The outside access device does not render the panic device inoperable from the inside.



CE Marking:	CE Marked. Classification [3][7][7][B][1][3][2][2][A][A]
Standards:	Conforms to EN 1125:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and less than 1320mm wide. Type A with push-bar operation. Projection of the device from the door surface is 100mm (Class 2). Tested to 200,000 cycles. ICIM Product Certificate No 148AD/0. Certificate of Conformity No 0425-CPD-1331. Copies available on request. Refer to our website for DoP No PED0001.
Fire:	Suitable for use on fire and smoke door assemblies.
Construction:	Steel mechanism and plastic coated steel arms. ABS thermoplastic covers as standard, but also available with real stainless steel covers (but with black arms). Oval section cross bars are manufactured from steel, aluminium or real stainless steel. EUROSART uses the same cross bars as MINISTAR 429.
Finish:	Standard mechanism and arms finished black, but also available with silver grey plastic coated arms and matching ABS thermoplastic covers to complement stainless steel door hardware, finish ref Silver Grey Inox Match. There is also a version with real stainless steel mechanism covers with standard black arms. Cross bars available anodised silver, real stainless steel, painted black and painted red.
Handing:	Reversible, non-handed by inverting lock case.
Sizes:	Cross bars 900mm, 1200mm and 1500mm. Cross bars should be cut as close to the opening width as possible but not less than 60% of the opening width. Vertical rods one size only; will suit doors up to 2600mm, but fire rated doors up to 2520mm high only.
Lock case:	Reversible split follower panic lock case suitable for fire rated doors. Steel case, forend and latchbolt. Reversible by inverting, latchbolt 12mm throw. 72mm centres, 65mm backset, 85mm case depth, 9mm split follower. One-piece 235x24mm radiused forend. Electric version also available ref. N4569065090* £128.72 each. Narrow stile lock cases are also available to special order.
Counter-lock:	Reversible panic counter-lock case suitable for fire rated doors, with receiving strike inserted in the forend. Steel case and forend. 65mm backset, 85mm case depth, 9mm one-piece follower. Forend 24x235mm.
Re-latching device:	Automatic re-latching device for top rod on secondary leaf available to order separately.
Installation:	Lock and counter-lock require morticing in door edge(s). Full fitting details and fixings supplied. Recommended bar height 900-1100mm from FFL.
OAD:	PAM21 series of outside access devices as below. These are an essential part of this system and must be ordered as they include the spindles to operate the panic exit device. Spindles are not available separately. Finish black. Euro profile cylinders available to order separately: cylinder length will be dictated by door thickness. Backplates are 8mm thick.
Modularity:	Not compatible with MINISTAR 429, MINIPAD 423 or TOUCH 445. However it does use the same oval cross bars as MINISTAR 429.
Signage:	Supplied with free issue "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive.
Dogging device:	Not available with dogging device.
Micro-switch:	Available with micro-switch to detect when device is operated or to work with a delayed egress system, suffix /MIC. Must be ordered complete.
Accessories:	All components listed on pages 186-190. Door co-ordinators on pages 131-135. Running man signage on page 172.

PAM21 COMPULSORY OUTSIDE ACCESS DEVICES

REF	DESCRIPTION	PRICE	UNIT
PAM21 00 03	Outer black trim comprising 21mm diameter black lever handle on 165x46x8mm euro cylinder backplate, fixing screws, rod with plug to regulate spindle, one 55mm + 28mm split spindle, one 55mm + 31mm split spindle, for primary leaf only	£36.45	each
PAM21 00 04	Outer black trim comprising 21mm diameter black lever handle on 165x46x8mm blind backplate, fixing screws, rod with plug to regulate spindle, one 55mm + 28mm split spindle, one 55mm + 31mm split spindle, for primary leaf only	£36.45	each
PAM21 00 05	Outer black trim comprising black fixed knob 52mm diameter on 165x46x8mm euro cylinder backplate, fixing screws, rod with plug to regulate spindle, one 28mm through spindle, one 31mm through spindle, for primary leaf only	£36.45	each
PAM21 00 06	Outer black 165x46x8mm euro cylinder backplate only (no lever or knob), fixing screws, rod with plug to regulate spindle, one 28mm through spindle, one 31mm through spindle, for primary leaf only	£32.40	each
PAM21 00 07	Outer black 165x46x8mm blind backplate only (no lever or knob or cylinder cut-out), fixing screws, rod with plug to regulate spindle, one 28mm through spindle, one 31mm through spindle, one 45mm through spindle, for primary or secondary leaf (Note: only this plate may be used on secondary leaf)	£32.40	each



Spindles may be cut to size on site as required.

PAM 21 trims have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

CORNI EUROSART MORTICE PANIC EXIT DEVICES



PRIMARY LEAF

REF	DESCRIPTION	PRICE	UNIT
NPM162 05 02	Panic exit device with steel mech and arms, ABS covers, two parts, reversible, black, including three optional cover plates illustrated below.	£101.25	each
NPAM26 00 02 00	Aluminium cross bar, 1200mm long, anodised silver, oval section. Other sizes and finishes available, see page 186.	£22.28	each
NPN820 01 65	Mortise lock case (fits to active leaf), panic function, reversible, fire rated to suit euro profile cylinder, 65mm backset, 85mm deep, 72mm centres, 9mm split follower.	£64.81	each
PAM21 00 03	Outer black trim (OAD) with lever handle on euro cylinder backplate, with split spindles to operate OAD and panic exit device. Must be ordered with above products as it contains the spindles to operate them. Other trim options available, see below.	£36.45	each



72mm centres



92mm centres



Blind



SECONDARY LEAF

REF	DESCRIPTION	PRICE	UNIT
NPM162 05 02	Panic exit device with steel mech and arms, ABS covers, two parts, reversible, black, including three optional cover plates.	£101.25	each
NPAM26 00 02 00	Aluminium cross bar, 1200mm long, anodised silver, oval section. Other sizes and finishes available, see page 186.	£22.28	each
NPN820 11 65	Panic counter-lock with strike inserted in the forend (fits to secondary leaf), reversible, 65mm backset, 85mm deep, 9mm one-piece follower.	£76.95	each
NPAM11 00 05	Set of upper and lower rods, each rod 1200mm long (excluding tip) x 8mm diameter, with 60mm long x 10mm diameter upper and lower tapered tips.	£36.45	each
NPAN33 00 07	Automatic re-latching device for top rod.	£12.15	each
PAM21 00 07	Outer black trim with blind backplate, with spindles to operate panic exit device. Must be ordered with above products as it contains the spindles to operate them. NB. Only this trim option will work on the secondary leaf.	£32.40	each



OUTSIDE ACCESS DEVICE CONFIGURATIONS

MDC - PRIMARY LEAF

PAM21 00 03

Locking with key from both the inside and outside.
Opening from the outside with key and handle.
Opening from the inside with panic device.



MS - PRIMARY LEAF

PAM21 00 04

Opening from the outside with handle.
Opening from the inside with panic device.



MCE - PRIMARY LEAF

PAM21 00 03

Locking with key from the outside.
Opening from the outside with key and handle.
Opening from the inside with panic device.



KCE - PRIMARY LEAF

PAM21 00 05

Locking with key from the outside.
Opening from the outside with key which retracts the latch bolt (the knob does not turn).
Opening from the inside with panic device.



MCI - PRIMARY LEAF

PAM21 00 04

Locking with key from the inside.
Only opening from the outside with handle once the lock is unlocked with the key from the inside.
Opening from the inside with panic device.



PCE - PRIMARY LEAF

PAM21 00 06

Locking with key from the outside.
Opening from the outside with key which retracts the latch bolt.
Opening from the inside with panic device.



SN - PRIMARY LEAF

PAM21 00 07

No opening from the outside.
Only opening from the inside with panic device.



SSN - SECONDARY LEAF

PAM21 00 07

Configuration only for the inactive leaf of a double door.
No opening from the outside.
Only opening from the inside with panic device which retracts the two vertical rods.



CYLINDERS SHOULD BE ORDERED SEPARATELY - SEE PAGES 145-147

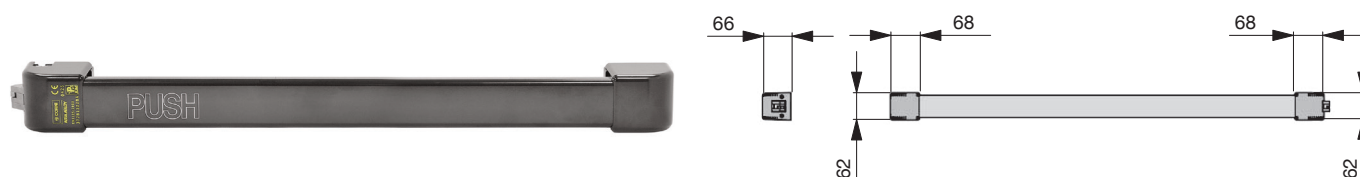
CORNI MILLENIUM PUSH & PULL EXIT DEVICES

CORNI MILLENIUM PUSH & PULL is a complete modular range of surface mounted push and pull panic exit devices manufactured by ASSA ABLOY Italia S.p.A. It is designed so the touch-bar sits off the door which makes it possible to reach down behind the touch-bar and pull the door closed.

The panic bolt patterns comprise a panic latch and a modular transformation kit (vertical or horizontal) which includes stainless steel Pullman latches, steel rods and aluminium rod covers as standard. An added bonus is that the same transformation kits are used with the CORNI COMPOSIT NEW range on page 184. This modularity helps to reduce customers' stock levels. Single panic bolts are supplied with three point locking as standard; top, bottom and central. These may be converted to two point locking top and bottom by the use of a blanking plate to nullify the central latch if required. CORNI MILLENIUM PUSH & PULL is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu.

Different latch kits offer the option for both Pullman latches to shoot vertically top and bottom, or shoot horizontally (making three horizontal latches at the top, middle and bottom), or with one Pullman latch shooting vertically and one shooting horizontally (although this makes the unit handed). A horizontal shooting bottom latch avoids the need to drill the threshold and eases installation. The range conforms to the European standard EN 1125:2008 on panic exit devices, is CE marked, and is suitable for use on fire rated doors. The standard finishes are black and simulated stainless steel but products can also be supplied grey, white, red and gold to special order.

The lever handle outside access device is easily and quickly installed, and is supplied with a 40mm long euro-profile standard differ single cylinder. It is suitable for doors up to 90mm thick. The lever handle is available in one function only and the key can be taken away and the door left unlocked for free access.



CE Marking:	CE Marked. Classification [3 7 7 B 1 3 2 2 B A]
Standards:	Conforms to EN 1125:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and 1320mm wide. Type B with touch-bar operation. Projection of the device from the door surface less than 100mm (Class 2), 66mm actual. Tested to 200,000 cycles. ICIM Product Certificate No 010AD/4. Certificate of Conformity No 0425-CPR-0591. Copies available on request. Refer to our website for DoP No PED0016.
Fire:	Suitable for use on fire and smoke door assemblies.
Corrosion:	NF19720 OAD independently successfully tested to Grade 4 of BS EN 1670:2007 (240 hours neutral salt spray). Report No WIL 392103 refers.
Construction:	Stainless steel latch bolts, steel mechanism, steel rods and aluminium rod covers. Aluminium touch-bar in painted or plated finishes.
Finish:	Mechanism standard finishes black and simulated stainless steel (IN) but different body colours may be available to special order depending on quantity, including grey (GR), white (WH) and gold (AU). Touch-bar standard finishes black (N) and nickel plated to match satin stainless steel (IN) but also available silver (AR), red (R), white (WH) and gold (AU) to special order depending on quantity.
Handing:	Reversible, non-handed centre latch mechanism. Suitable for single leaf doors or pairs of doors, active or inactive leaf.
Sizes:	Standard vertical rods suit doors up to 2450mm with touch-bar mounted at 900mm from FFL (and 2650mm if mounted at 1100mm) but the NF9821 extended rod increases this by 630mm to 3080mm and 3280mm respectively. The standard touch-bar is 900mm long but is also available 1200mm and 1500mm. Touch-bars should be cut as close to the opening width as possible but not less than 60% of the opening width. Please note doors above 2520mm high and 1320mm wide are outside the scope of the CE certification.
Installation:	Full fitting details and fixings supplied. Recommended touch-bar height 900-1100mm from FFL. Stainless steel latch strike plate included with two spacer shims. Nylon blanking plates included.
OAD:	Optional external lever handle OAD suitable for door thickness up to 90mm if outside access is required. The key can be taken away leaving the OAD unlocked and allowing free access from outside. The outside access device cannot be locked and unlocked from inside the door. The Millenium OAD is different to the Ministar "Jolly" OAD.
Modularity:	Modular latch/rods transformation kits for one, two or three locking points. The same latch and rod kits operate with COMPOSIT NEW but not with any other CORNI panic bolt ranges.
Signage:	Supplied with free issue "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive.
Dogging device:	Supplied with dogging device as standard, which may be deactivated. Dogging devices should not be used on fire rated doors.
Micro-switch:	Central mechanism available with micro-switch to detect when device is operated or to work with a delayed egress system, ref NF19700/B.
CAD drawing:	Please contact us for details. DXF format CAD files available.
Accessories:	All components listed on pages 186-190. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.

ONE POINT LOCKING



CML1040.00

TWO POINT LOCKING (central side latch nullified)



CML1240.0Z

THREE POINT LOCKING



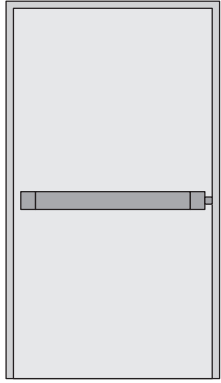
CML1240.0Z

HORIZONTAL LEVER (OAD)



NF19720
(see price on page 190)

CORNI MILLENIUM PUSH & PULL EXIT DEVICES



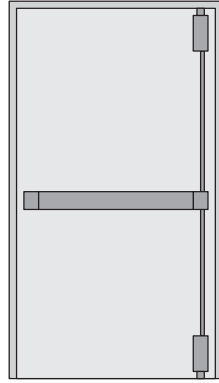
SINGLE PANIC LATCH

With standard side latch
(all components black)
Ref. **CML1040.00**

Comprising:
NF19700
centre latch mech & idler
NF19309/N
touch-bar, 900mm
£141.40 set



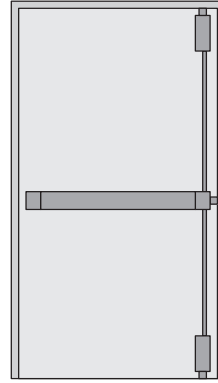
ASSA ABLOY



SINGLE PANIC BOLT (2 POINT)

Using vertical top & bottom latches
with central side latch nullified
(all components black)
Ref. **CML1240.0Z**

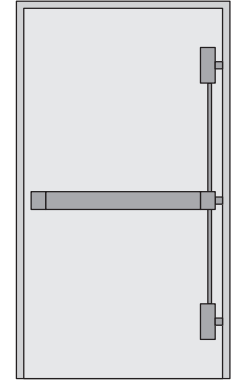
Comprising:
NF19700
centre latch mech & idler
NF19309/N
touch-bar, 900mm
NF9840NEW
vertical pullman latch kit with rods
and covers, 2450mm
£252.51 set



SINGLE PANIC BOLT (3 POINT)

Using top, bottom & central latches
with central side latch active
(all components black)
Ref. **CML1240.0Z**

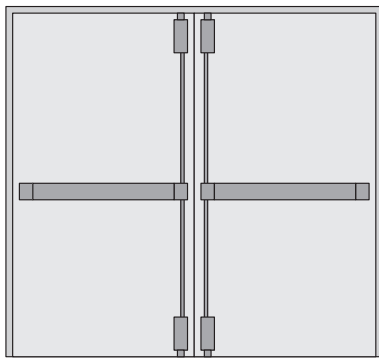
Comprising:
NF19700
centre latch mech & idler
NF19309/N
touch-bar, 900mm
NF9840NEW
vertical pullman latch kit with rods
and covers, 2450mm
£252.51 set



SINGLE PANIC BOLT (3 POINT)

Using three side latches
with central side latch active
(all components black)
Ref. **CML1246.0Z**

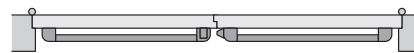
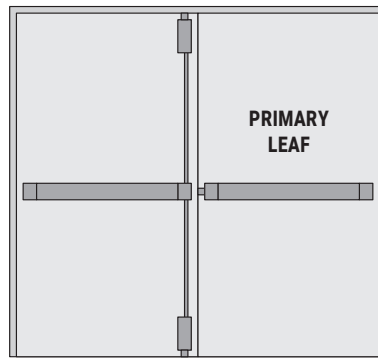
Comprising:
NF19700
centre latch mech & idler
NF19309/N
touch-bar, 900mm
NF9841NEW
horizontal pullman latch kit with rods
and covers, 2450mm
£265.98 set



DOUBLE DOOR PANIC BOLT SET

Plain meeting stiles
with both central side latches nullified
(all components black)
Ref. **CML2480.0Z**

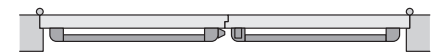
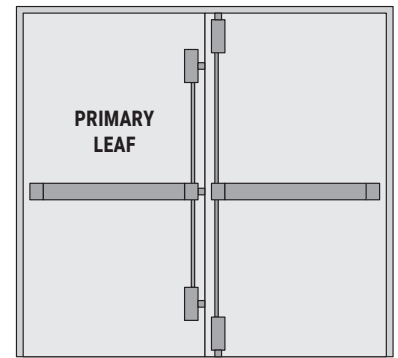
Comprising: (2 x **CML1240.0Z**)
2 x **NF19700** centre latch mech & idler
2 x **NF19309/N** touch-bar, 900mm
2 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2450mm
£505.02 set



DOUBLE DOOR PANIC BOLT SET

Standard set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CML2481.0Z**

Comprising: (**CML1240.0Z** + **CML1040.00**)
2 x **NF19700** centre latch mech & idler
2 x **NF19309/N** touch-bar, 900mm
1 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2450mm
£393.91 set



DOUBLE DOOR PANIC BOLT SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CML2482.0Z**

Comprising: (**CML1240.0Z** + **CML1246.0Z**)
2 x **NF19700** centre latch mech & idler
2 x **NF19309/N** touch-bar, 900mm
1 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2450mm
1 x **NF9841NEW** horizontal pullman latch kit
with rods & covers, 2450mm
£518.49 set

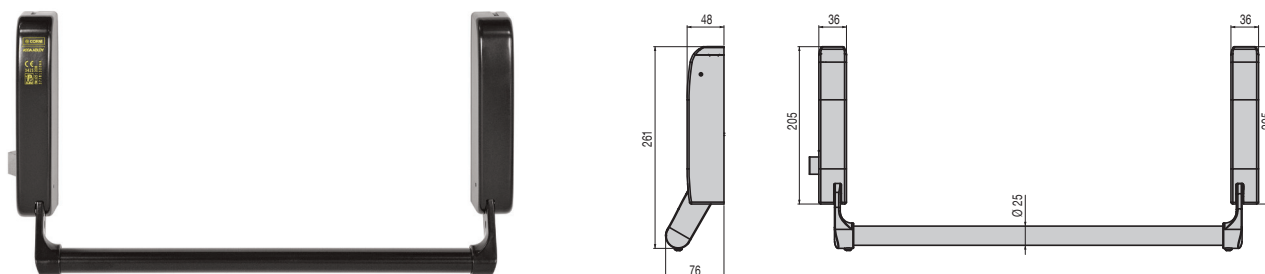
CORNI COMPOSIT NEW RIM PANIC EXIT DEVICES



CORNI COMPOSIT NEW is a complete modular range of surface mounted push-bar panic exit devices manufactured by ASSA ABLOY Italia S.p.A. The panic bolt patterns comprise a panic latch and a modular transformation kit (vertical or horizontal) which includes stainless steel Pullman latches, steel rods and aluminium rod covers as standard. The same transformation kits are used with the CORNI MILLENNIUM PUSH & PULL range on page 182. Single panic bolts are supplied with three point locking as standard; top, bottom and central. These may be converted to two point locking top and bottom by the use of a blanking plate to nullify the central latch if required. CORNI COMPOSIT NEW is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu.

COMPOSIT NEW has been sold in the UK and Ireland for many years. It features a modern design and can be used on new installations but the mechanisms which measure 205mm high x 36mm wide make it suitable for the retrofit market and replacing other makes of surface fixed panic bolt. All the products described and referenced on these two pages use the COMPOSIT NEW models that work with euro profile cylinders, but there are similar products available to special order that work with oval cylinders. Different latch kits offer the option for both Pullman latches to shoot vertically top and bottom or shoot horizontally (making three horizontal latches at the top, middle and bottom). A horizontal shooting bottom latch avoids the need to drill the threshold and eases installation. The range conforms to the European standard EN 1125:2008 on panic exit devices, is CE marked, and is suitable for use on fire rated doors. The standard finish is black, with the exception of the cross bars which can be supplied red or plated steel to match satin stainless steel as an option at extra cost.

There are three options for obtaining outside access. (a). Series NF9510 is a simple handle on a rectangular rose and supplied with a spindle which goes through the door and into the back of the mechanism. (b). Series NF9510 simple handle (as above) can also be used in conjunction with a euro profile half cylinder NF160 which can be supplied 76mm (NF160/F), 86mm (NF160/MF) or 106mm long (NF160/LF). (c). Series NF9521 is a handle on a backplate with a round brass cylinder with long tail that passes through the door and then engages in a euro profile shaped cam adaptor that fits into the back of the mechanism.



- CE Marking:** CE Marked. Classification **[3]7[7]B[1]3[2]2[A]A**
- Standards:** Conforms to EN 1125:2008 for doors on hinges or pivots weighing over 200kg, less than 2520mm high and 1320mm wide. Type A with push-bar operation. Projection of the device from the door surface less than 100mm (Class 2). Tested to 200,000 cycles. ICIM Product Certificate No 001AD/6. Certificate of Conformity No 0425-CPR-0587. Copies available on request. Refer to our website for DoP No PED0006.
- Fire:** Suitable for use on fire and smoke door assemblies.
- Construction:** Stainless steel latch bolts, steel mechanism, steel rods and aluminium rod covers. Mazak arms and round steel cross bar.
- Finish:** Mechanism standard finishes black and simulated stainless steel (IN) but different body colours may be available to special order depending on quantity, including grey (GR), white (WH) and gold (AU). Steel cross bar standard finishes black (N) and plated steel to match satin stainless steel (IN) but also available grey (GG), red (R), green (V), white (WH) and gold (AU) to special order depending on quantity.
- Handing:** Reversible, non-handed centre latch mechanism. Handed if supplied with micro-switch. Suitable for single leaf doors or pairs of doors, active or inactive leaf.
- Sizes:** Standard vertical rods suit doors up to 2650mm with cross bar mounted at 900mm from FFL (and 2850mm if mounted at 1100mm) but the NF9821 extended rod increases this by 630mm to 3280mm and 3480mm respectively. The standard cross bar is 995mm long but is also available 1200mm and 1500mm. Cross bars should be cut as close to the opening width as possible but not less than 60% of the opening width. Please note doors above 2520mm high and 1320mm wide are outside the scope of the CE certification.
- Installation:** Easy installation on very narrow profiles without any backplate. Full fitting details and fixings supplied. Recommended bar height 900-1100mm from FFL. Stainless steel latch strike plate included with two spacer shims. Nylon blanking plates included.
- OAD:** Optional outside access device available, NF9525 horizontal lever. The key can be taken away leaving the OAD unlocked and allowing free access from outside. The outside access device cannot be locked and unlocked from inside the door.
- Modularity:** Modular latch/rods transformation kits for one, two or three locking points. The same latch and rod kits operate with MILLENNIUM PUSH & PULL but not with any other CORNI panic bolt ranges.
- Signage:** Supplied with free issue "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive.
- Micro-switch:** Available with micro-switch to detect when device is operated or to work with a delayed egress system: advise right or left hand and whether micro-switch is to act on latch or lever handle or both. Must be ordered complete.
- CAD drawing:** Please contact us for details. DXF format CAD files available.
- Accessories:** All components listed on pages 186-190. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.

ONE POINT LOCKING



CCN1040.00

TWO POINT LOCKING (central side latch nullified)



CCN1240.0Z

THREE POINT LOCKING



CCN1240.0Z

HORIZONTAL LEVER (OAD) **NEW**

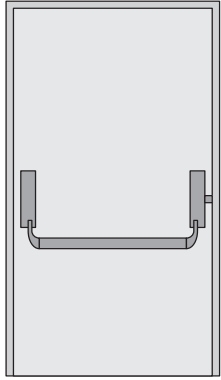


NF9525
(see price on page 189)

CORNI COMPOSIT NEW RIM PANIC EXIT DEVICES



PENDING UK



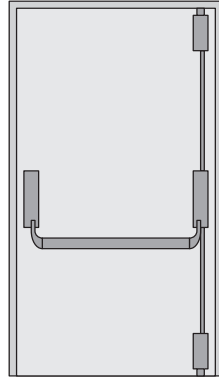
SINGLE PANIC LATCH

With standard side latch
(all components black)
Ref. **CCN1040.00**

Comprising:
NF9501NEW
centre latch mech & idler
NF19209/N
cross bar, 995mm
£133.00 set



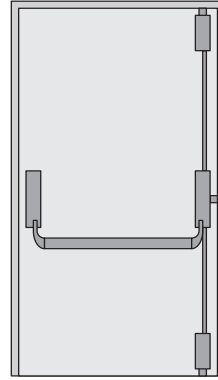
ASSA ABLOY



SINGLE PANIC BOLT (2 POINT)

Using vertical top & bottom latches
with central side latch nullified
(all components black)
Ref. **CCN1240.0Z**

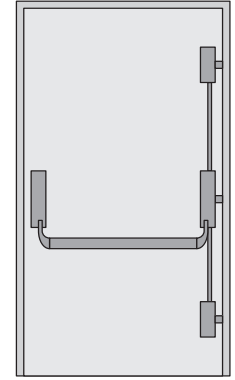
Comprising:
NF9501NEW
centre latch mech & idler
NF19209/N
cross bar, 995mm
NF9840NEW
vertical pullman latch kit with rods
and covers, 2650mm
£244.11 set



SINGLE PANIC BOLT (3 POINT)

Using top, bottom & central latches
with central side latch active
(all components black)
Ref. **CCN1240.0Z**

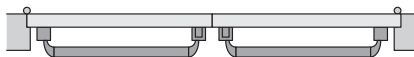
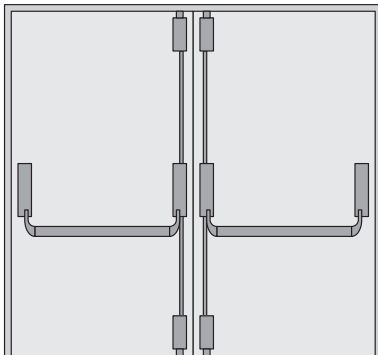
Comprising:
NF9501NEW
centre latch mech & idler
NF19209/N
cross bar, 995mm
NF9840NEW
vertical pullman latch kit with rods
and covers, 2650mm
£244.11 set



SINGLE PANIC BOLT (3 POINT)

Using three side latches
with central side latch active
(all components black)
Ref. **CCN1246.0Z**

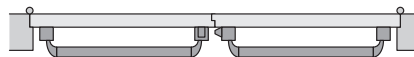
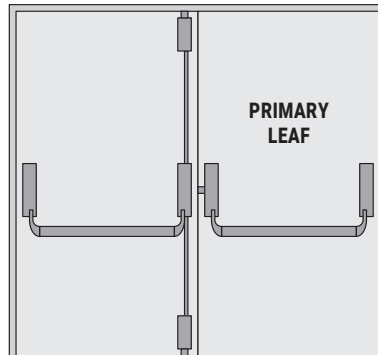
Comprising:
NF9501NEW
centre latch mech & idler
NF19209/N
cross bar, 995mm
NF9841NEW
horizontal pullman latch kit with rods
and covers, 2650mm
£257.57 set



DOUBLE DOOR PANIC BOLT SET

Plain meeting stiles
with both central side latches nullified
(all components black)
Ref. **CCN2480.0Z**

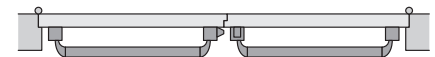
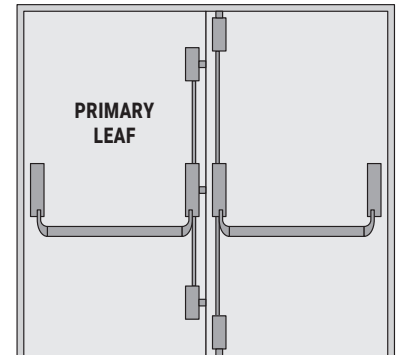
Comprising: (2 x **CCN1240.0Z**)
2 x **NF9501NEW** centre latch mech & idler
2 x **NF19209/N** cross bar, 995mm
2 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2650mm
£488.21 set



DOUBLE DOOR PANIC BOLT SET

Standard set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CCN2481.0Z**

Comprising: (**CCN1240.0Z** + **CCN1040.00**)
2 x **NF9501NEW** centre latch mech & idler
2 x **NF19209/N** cross bar, 995mm
1 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2650mm
£377.11 set



DOUBLE DOOR PANIC BOLT SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified
(all components black)
Ref. **CCN2482.0Z**

Comprising: (**CCN1240.0Z** + **CCN1246.0Z**)
2 x **NF9501NEW** centre latch mech & idler
2 x **NF19209/N** cross bar, 995mm
1 x **NF9840NEW** vertical pullman latch kit
with rods & covers, 2650mm
1 x **NF9841NEW** horizontal pullman latch kit
with rods & covers, 2650mm
£501.68 set

CORNI PANIC & EMERGENCY EXIT DEVICES

ASSA ABLOY CORNI MINISTAR 429 PUSH-BAR PANIC DEVICES CE MARKED (EN 1125)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N42906 00 000	Black	Ministar 429 push-bar centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt	£66.84	each	6
N42906 00 000 IN*	Simulated stainless	Ministar 429 push-bar centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt	£175.55	each	6
N42906 00 100 MIC*	Black	Ministar 429 push-bar centre latch mechanism and idler only, (two-part set), with micro-switch, right hand DX	£108.02	each	6
N42906 00 200 MIC*	Black	Ministar 429 push-bar centre latch mechanism and idler only, (two-part set), with micro-switch, left hand SX	£108.02	each	6

Mechanisms also available grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.
Mechanisms not available with dogging device. Mechanisms with micro-switches must be factory ordered.



ASSA ABLOY CORNI CROSSBARS FOR MINISTAR 429 AND EUROSMART PANIC DEVICES CE MARKED (EN 1125)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NPAM26 00 01 12	Black	Painted crossbar, 900mm long, oval section	£10.65	each	6
NPAM26 00 02 12	Black	Painted crossbar, 1200mm long, oval section	£20.06	each	6
NPAM26 00 01 00	Silver	Anodised aluminium crossbar, 900mm long, oval section	£16.82	each	6
NPAM26 00 02 00	Silver	Anodised aluminium crossbar, 1200mm long, oval section	£22.28	each	6
NPAM26 00 03 12	Black	Painted crossbar, 1500mm long, oval section	£23.03	each	6
NPAM26 00 03 14	Red	Painted crossbar, 1500mm long, oval section	£23.03	each	6
NPAM26 00 02 01	Satin	Real stainless steel crossbar, 1200mm long, oval section	£74.14	each	6

Crossbars available silver anodised aluminium (00), real satin stainless (01), black (12), simulated stainless (03), red (14), green (05), white (06), grey (07), gold (08) and real polished stainless (10) to special order depending on quantity. The numbers in brackets refer to the last two digits of the product reference. Sizes 900mm, 1200mm and 1500mm to special order depending on quantity.



ASSA ABLOY CORNI MINIPAD 423 PUSH-PAD EMERGENCY DEVICES CE MARKED (EN 179)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N42306 00 100Z	Black	Minipad 423 push-pad latch mechanism with white hand on green minipad, stainless steel latchbolt, right hand DX	£87.45	each	6
N42306 00 100 IN*	Simulated stainless	Minipad 423 push-pad latch mechanism with white hand on green minipad, stainless steel latchbolt, right hand DX	£173.84	each	6
N42306 00 200Z	Black	Minipad 423 push-pad latch mechanism with white hand on green minipad, stainless steel latchbolt, left hand SX	£87.45	each	6
N42306 00 200 IN*	Simulated stainless	Minipad 423 push-pad latch mechanism with white hand on green minipad, stainless steel latchbolt, left hand SX	£173.84	each	6

Mechanisms also available grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.
Mechanisms not available with dogging device or micro-switch.



LH shown above

ASSA ABLOY CORNI TOUCH 445 TOUCH-BAR PANIC DEVICES WITH ANTI-THRUST CE MARKED (EN 1125)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N44505 32 000*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 320mm long, to suit doors up to 400mm wide, cannot be cut	£177.00	each	1
N44505 64 000*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 640mm long, to suit doors 500-650mm wide, max cut 150mm	£184.12	each	1
N44505 84 000	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 840mm long, to suit doors 650-850mm wide, max cut 200mm	£174.53	each	1
N44505 11 000*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 1140mm long, to suit doors 850-1150mm wide, max cut 300mm	£200.53	each	1
N44505 13 000	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 1300mm long, to suit doors 850-1310mm wide, max cut 460mm	£220.09	each	1
N44505 84 000 MIC*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 840mm long, to suit doors 650-850mm wide, with micro-switch	£257.70	each	1
N44505 11 000 MIC*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 1140mm long, to suit doors 850-1150mm wide, with micro-switch	£264.43	each	1
N44505 13 000 MIC*	Black body Red bar	Touch 445 touch-bar latch mechanism, reversible, 1300mm long, to suit doors 850-1310mm wide, with micro-switch	£271.09	each	1

Touch-bar available red (RAL3000), white (RAL9002), black (RAL9011), green (RAL6001) and anodised silver to special order depending on quantity.



CORNI PANIC & EMERGENCY EXIT DEVICES



ASSA ABLOY CORNI UNIVERSAL LATCH KITS FOR MINISTAR 429, MINIPAD 423 AND TOUCH 445					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N03429 00 000	Black	Vertical pullman latch kit, stainless steel upper and lower vertical latch bolts (steel covers) with striking plates - see below for rods	£26.43	each	8
N03429 00 000 IN*	Simulated stainless	Vertical pullman latch kit, stainless steel upper and lower vertical latch bolts (steel covers) with striking plates - see below for rods	£108.02	each	8
N03429 00 050	Black	Lateral pullman latch kit, stainless steel upper and lower horizontal latch bolts (steel covers) with striking plates - see below for rods	£39.92	each	8
N03429 00 050 IN*	Simulated stainless	Lateral pullman latch kit, stainless steel upper and lower horizontal latch bolts (steel covers) with striking plates - see below for rods	£121.53	each	8
N03429 00 100*	Black	Combination pullman latch kit, one upper vertical latch and one lower horizontal latch (stainless steel latch bolts, steel covers) & strike plates, right hand DX - see below for rods	£62.91	each	8
N03429 00 100 IN*	Simulated stainless	Combination pullman latch kit, one upper vertical latch and one lower horizontal latch (stainless steel latch bolts, steel covers) & strike plates, right hand DX - see below for rods	£121.53	each	8
N03429 00 200*	Black	Combination pullman latch kit, one upper vertical latch and one lower horizontal latch (stainless steel latch bolts, steel covers) & strike plates, left hand SX - see below for rods	£62.91	each	8
N03429 00 200 IN*	Simulated stainless	Combination pullman latch kit, one upper vertical latch and one lower horizontal latch (stainless steel latch bolts, steel covers) & strike plates, left hand SX - see below for rods	£121.53	each	8

Covers also available grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.



Vertical



Lateral



Combination (LH Illustrated)

ASSA ABLOY CORNI UNIVERSAL ROD KITS FOR MINISTAR 429, MINIPAD 423 AND TOUCH 445					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N04444 00 000ZS	Black	Vertical black rods with black steel covers, for very short doors or for use with horizontal pullman latches (size ref 00ZS), both rods 847mm (can cut to 490mm)	£14.86	set	10
N04444 00 000Z	Black	Vertical black rods with black steel covers, for short doors or for use with horizontal pullman latches (size ref 00Z), both rods 1097mm (can cut to 737mm)	£16.15	set	10
N04444 00 000	Black	Vertical black rods with black steel covers, for doors 1800-2200mm high (size ref 00), upper rod 1162mm (can cut to 802mm), lower rod 1097mm (can cut to 737mm)	£9.73	set	10
N04444 01 000	Black	Vertical black rods with black steel covers, for doors 2000-2400mm high (size ref 01), upper rod 1362mm (can cut to 1002mm), lower rod 1097mm (can cut to 737mm)	£24.39	set	10
N04444 02 000	Black	Vertical black rods with black steel covers, for doors 2200-2600mm high (size ref 02), upper rod 1562mm (can cut to 1202mm), lower rod 1097mm (can cut to 737mm)	£29.48	set	10
N04444 03 000*	Black	Vertical black rods with black steel covers, for doors 2400-2800mm high (size ref 03), upper rod 1762mm (can cut to 1402mm), lower rod 1097mm (can cut to 737mm)	£37.63	set	10
N04444 04 000	Black	Vertical black rods with black steel covers, for doors 2600-3000mm high (size ref 04), upper rod 1962mm (can cut to 1602mm), lower rod 1097mm (can cut to 737mm)	£45.53	set	10
N04444 00 000 IN*	Simulated stainless	Vertical black rods with simulated stainless steel covers, for doors 1800-2200mm high (size ref 00), upper rod 1162mm (can cut to 802mm), lower rod 1097mm (can cut to 737mm)	£141.78	set	10
N04444 02 000 IN*	Simulated stainless	Vertical black rods with simulated stainless steel covers, for doors 2200-2600mm high (size ref 02), upper rod 1562mm (can cut to 1202mm), lower rod 1097mm (can cut to 737mm)	£148.10	set	10
N04444 04 000 IN*	Simulated stainless	Vertical black rods with simulated stainless steel covers, for doors 2600-3000mm high (size ref 04), upper rod 1962mm (can cut to 1602mm), lower rod 1097mm (can cut to 737mm)	£152.81	set	10

Rod covers also available grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.

Rods available 2200mm (ref 00), 2400mm (ref 01), 2600mm (ref 02), 2800mm (ref 03) and 3000mm (ref 04) to special order depending on quantity.

NOTE: RODS ARE SLOTTED AT ONE END ONLY (ALWAYS 37 HOLES) AND CANNOT BE CUT SHORTER THAN MINIMUM DIMENSIONS SHOWN ABOVE.



CORNI PANIC & EMERGENCY EXIT DEVICES



ASSA ABLOY CORNI EUROSMART MORTICE PUSH-BAR PANIC DEVICES CE MARKED (EN 1125)					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NPM162 05 02	Black	Panic exit device, two parts, reversible, black ABS covers,	£101.25	set	1
NPM162 05 02 MIC*	Black	Panic exit device, two parts, reversible, black ABS covers, with micro-switch	£131.66	set	1
NPM162 05 02 03	Sliver grey inox match	Panic exit device, two parts, reversible, plastic coated silver grey steel arms and matching ABS covers	£182.26	set	1
NPM162 05 02 01*	Black/stainless	Panic exit device, two parts, reversible, black plastic coated steel arms and real stainless steel covers	£188.99	set	1
NPAM26 00 02 00	Silver	Cross bar, anodised aluminium, 1200mm long, oval section	£22.28	each	6
NPAM26 00 02 01	Stainless	Cross bar, real stainless steel, 1200mm long, oval section	£74.14	each	6
NPAM26 00 03 12	Black	Cross bar, painted black, 1500mm long, oval section	£23.03	each	6
NPAM26 00 03 14	Red	Cross bar, painted red, 1500mm long, oval section	£23.03	each	6
NPN820 01 65	Galvanised	Mortice lock case (for primary leaf), panic function, reversible, fire rated to suit euro profile cylinder, 65mm backset, 85mm deep	£64.81	each	10
NPN820 11 65	Galvanised	Panic counter-lock with strike inserted into forend (for secondary leaf), reversible, 65mm backset, 85mm deep, 9mm follower	£76.95	each	10
N45690 65 090*	Galvanised	Mortice electric lock case (for primary leaf), panic function, reversible, fire rated, to suit euro profile cylinder, 65mm backset, 85mm deep	£137.73	each	10
NPAM11 00 05	-	Set of upper and lower rods with 60mm long x 10mm diameter upper and lower tips, each rod 1200mm long (excluding tip) x 8mm diameter, cut to size on site (one size only)	£36.45	set	6
NPAN33 00 07	-	Automatic re-latching device for top of secondary leaf	£12.15	each	10



ASSA ABLOY CORNI UNIVERSAL OUTSIDE ACCESS DEVICES FOR MINISTAR 429, MINIPAD 423 AND TOUCH 445					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N04480 08 000	Black	"Jolly" OAD, horizontal lever handle, universal, with euro profile cylinder, standard differ, 3 keyed, to suit 82mm max door (60mm Touch 445) "Jolly" available keyed alike at same price Ref N04480 08 000 20	£90.27	each	12
N04419 06 000	-	Spare cam adaptor for "Jolly" handle required for retrofit	£7.68	each	1
N04440 05 000	Nickel plated	Euro profile single cylinder, 80mm long (70+10), 3 keyed, to suit door thickness max 50mm, with black escutcheon kit	£40.78	each	12
N04440 06 000	Nickel plated	Euro profile single cylinder, 90mm long (80+10), 3 keyed, to suit door thickness max 60mm, with black escutcheon kit	£61.88	each	12

"Jolly" OAD also available simulated stainless (IN), grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.
"Jolly" OAD also available with micro-switch to special order.



ASSA ABLOY CORNI OUTSIDE ACCESS DEVICES FOR TOUCH 445 ONLY (NOT MINISTAR 429, MINIPAD 423 OR EUROSMART)					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N04440 00 000	Black	Lever handle on backplate with euro profile cylinder hole (cylinder not included)	£58.50	each	12
N04440 01 000	Black	Lever handle on backplate with euro profile 80mm single cylinder (70+10), 3 keyed, to suit door thickness max 50mm	£80.21	each	12
N04440 02 000	Black	Lever handle on blind backplate (without cylinder hole)	£57.26	each	12
N04440 04 000	Black	Lever handle on backplate with euro profile 90mm single cylinder (80+10), 3 keyed, to suit door thickness max 60mm	£93.58	each	12



ASSA ABLOY CORNI UNIVERSAL SPARE PARTS FOR MINISTAR 429, MINIPAD 423 AND TOUCH 445					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
N02400 01 000	Electro black	Spare lateral striking plate (01) for central latch (Touch 445 only) including four spacer shims	£10.12	each	10
N02400 02 000	Electro black	Spare floor strike plate (02) for vertical bottom latch	£9.66	each	10
N02400 03 000	Electro black	Spare lateral lower or upper strike plate (03) including four spacer shims, also central strike for Ministar/Minipad	£9.66	each	10
N04400 00 000	-	Spare micro-switch set (Touch 445 only. Not Ministar 429)	£62.35	set	1
A0300.30-SAV	Green/white	Push Bar To Open sign, white on green, self-adhesive vinyl, 60 x 300mm	£2.96	each	12
A0300.40-SAV	Green/white	Push Pad To Open sign, white on green, self-adhesive vinyl, 60 x 300mm	£2.96	each	12



NOTE: ALL CYLINDERS HAVE CAM PARKED IN OPPOSITE POSITION.

CORNI PANIC & EMERGENCY EXIT DEVICES



ASSA ABLOY CORNI COMPOSIT NEW PUSH-BAR PANIC DEVICES CE MARKED (EN 1125)					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF9501NEW	Black	Composit New push-bar centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt, to suit profile cylinder Series 160	£121.21	each	6
NF9501INNEW	Plated stainless steel	Composit New push-bar centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt, to suit profile cylinder Series 160	£222.20	each	6

Mechanisms also available grey (GR), white (WH), and gold (AU) to special order depending on quantity.

Mechanisms available with micro-switch to special order, advise hand when ordering.

Mechanisms not available with dogging device.



ASSA ABLOY CORNI CROSS BARS FOR COMPOSIT NEW PANIC DEVICES ONLY CE MARKED (EN 1125)					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF19209/N	Black	Painted steel cross bar, 995mm long, 25mm diameter round section	£11.79	each	6
NF19209/IN*	Painted stainless steel	Stainless steel finish cross bar, 995mm long, 25mm diameter round section	£26.94	each	6
NF19210/N	Black	Painted steel cross bar, 1200mm long, 25mm diameter round section	£13.47	each	6
NF19210/IN*	Painted stainless steel	Stainless steel finish cross bar, 1200mm long, 25mm diameter round section	£28.62	each	6
NF19212/N	Black	Painted steel cross bar, 1500mm long, 25mm diameter round section	£15.15	each	6
NF19212/IN*	Painted stainless steel	Stainless steel finish cross bar, 1500mm long, 25mm diameter round section	£30.30	each	6

Cross bars also available grey (GG), red (R), green (V), white (WH) and gold (AU) to special order depending on quantity.



ASSA ABLOY CORNI UNIVERSAL LATCH AND ROD KITS FOR COMPOSIT NEW AND MILLENIUM PUSH & PULL					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF9840NEW	Black	Vertical Pullman latch kit, stainless steel upper and lower vertical latch bolts (aluminium covers) with one upper striking plate and one floor striking plate, including rods and covers	£111.10	each	8
NF9840INNEW	Plated stainless steel	Vertical Pullman latch kit, stainless steel upper and lower vertical latch bolts (aluminium covers) with one upper striking plate and one floor striking plate, including rods and covers	£276.09	each	8
NF9841NEW	Black	Horizontal Pullman latch kit, stainless steel upper and lower horizontal latch bolts (aluminium covers) with two side striking plates, including rods and covers	£124.57	each	8
NF9841INNEW	Plated stainless steel	Horizontal Pullman latch kit, stainless steel upper and lower horizontal latch bolts (aluminium covers) with two side striking plates, including rods and covers	£289.53	each	8

Latch kits also available with covers and rods grey (GR), white (WH) and gold (AU) to special order depending on quantity.



Vertical



Lateral

ASSA ABLOY CORNI OUTSIDE ACCESS DEVICES FOR COMPOSIT NEW ONLY					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF9510	Black	Simple external handle on rectangular rose, universal, non-locking, with 115x8x8mm square spindle to suit 70mm door	£11.79	each	10
NF9525	Black	"Jolly" OAD, horizontal lever handle, universal, with euro profile cylinder, standard differ, 3 keyed, to suit 82mm max door	£90.27	each	12
NF160/F	Nickel	Euro profile half cylinder, 76mm overall, 55mm protrusion, to differ, 3 keyed, with black cylinder rose	£20.03	each	10
NF160/MF	Nickel	Euro profile half cylinder, 86mm overall, 65mm protrusion, to differ, 3 keyed, with black cylinder rose	£32.98	each	10
NF160/LF	Nickel	Euro profile half cylinder, 106mm overall, 85mm protrusion, to differ, 3 keyed, with black cylinder rose	£37.71	each	10

Handles also available simulated stainless (IN), grey (GR), white (WH), chrome (CR) and gold (AU) to special order depending on quantity.



CORNI PANIC & EMERGENCY EXIT DEVICES

ASSA ABLOY CORNI MILLENIUM PUSH & PULL PANIC DEVICES CE MARKED (EN 1125)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF19700	Black	Millenium push and pull centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt	£104.37	each	6
NF19700/IN	Plated stainless steel	Millenium push and pull centre latch mechanism and idler only, (two-part set), reversible, stainless steel latchbolt	£185.16	each	6



Mechanisms also available grey (GR) and white (WH) to special order depending on quantity.
Mechanisms available with micro-switch to special order, universal handing, NF19700/B.

ASSA ABLOY CORNI TOUCH-BARS FOR MILLENIUM PUSH & PULL PANIC DEVICES ONLY CE MARKED (EN 1125)

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF19309/N*	Black	Painted aluminium touch-bar, 900mm long	£37.03	each	6
NF19309/IN*	Simulated stainless steel	Nickel plated aluminium touch-bar, 900mm long	£144.78	each	6
NF19310/N	Black	Painted aluminium touch-bar, 1200mm long	£40.41	each	6
NF19310/IN*	Simulated stainless steel	Nickel plated aluminium touch-bar, 1200mm long	£146.46	each	6
NF19312/N	Black	Painted aluminium touch-bar, 1500mm long	£52.17	each	6
NF19312/IN	Simulated stainless steel	Nickel plated aluminium touch-bar, 1500mm long	£175.08	each	6



Touch-bars also available silver (AR), red (R), green (V), white (WH) and gold (AU) to special order depending on quantity.

ASSA ABLOY CORNI OUTSIDE ACCESS DEVICES FOR MILLENIUM PUSH & PULL ONLY (DIFFERENT TO MINISTAR "JOLLY")

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF19720	Black	"Jolly" OAD, horizontal lever handle, universal, with euro profile cylinder, standard differ, 3 keyed, to suit 82mm max door	£80.80	each	12
NF19720/IN	Plated stainless steel	"Jolly" OAD, horizontal lever handle, universal, with euro profile cylinder, standard differ, 3 keyed, to suit 82mm max door	£104.37	each	10



Handles also available grey (GR), white (WH) and gold (AU) to special order depending on quantity.

ASSA ABLOY CORNI SPARE PARTS AND STRIKE PLATES FOR COMPOSIT NEW AND MILLENIUM PUSH & PULL

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
NF9821	Black	Extended upper rod (+630mm) with aluminium cover (not available in stainless steel finish)	£50.50	each	10
NF9300	Stainless steel	Central strike plate as supplied with central mech, upper strike plate as supplied with NF9840NEW and side strike plates supplied with NF9841NEW (spare part only)	£5.05	each	10
NF9302	Stainless steel	Central strike for PVCu doors, 11.7mm door edge, 2 holes	£3.36	each	10
NF9302/2	Stainless steel	Central strike (extended) for PVCu doors, 11.7mm door edge, 3 holes	£4.05	each	10
NF9302/3	Stainless steel	Central strike (extended) for PVCu doors, 16mm door edge, 3 holes	£4.22	each	10
NF9303	Stainless steel	Floor strike as supplied with bottom latch of F9840NEW (spare part only)	£2.02	each	10



NF9300



NF9302



NF9302/2



NF9302/3



NF9303

ASSA ABLOY CORNI OUTSIDE ACCESS DEVICES FOR EUROSMART ONLY

REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
PAM21 00 03	Black	Outer trim, 21mm diameter lever handle on euro cyl backplate	£36.45	each	12
PAM21 00 04	Black	Outer trim, 21mm diameter lever handle on blind backplate	£36.45	each	12
PAM21 00 05	Black	Outer trim comprising fixed knob on euro cylinder backplate	£36.45	each	12
PAM21 00 06	Black	Outer backplate only with cut-out for euro cylinder	£32.40	each	12
PAM21 00 07	Black	Blind backplate only	£32.40	each	12



TESA UNIVERSAL RIM PANIC EXIT DEVICES



UNIVERSAL is the latest addition to our exit hardware device range and is a complete offering of surface mounted push-bar panic exit devices manufactured by ASSA ABLOY TESA in Spain. The key factor for the inclusion of the UNIVERSAL was the quick, easy installation it offers.

- Although the main central mechanisms are slim enough to install on narrow profiles, they have a large depth of 208mm giving easy access to fixing points.
- Easy fixing point access also applies to the Pullman latches.
- Vertical rods are just simply cut to size, with a large 40mm tolerance, and then held by grub screw in a collar. No e clips necessary.
- The cross bar is easily cut to size and held within the main central mechanisms by grub screw. No plugs required.

The above points, and more, lead to an extremely simple installation.

The UNIVERSAL is a single boxed product meaning all components; mechanisms, cross bar, rods, pullman latches and fixings are in one box, which is great from an installation perspective. The central mechanisms are reversible as standard and are available with micro switch. Pullman latches can be supplied vertical or horizontal, with two and three point locking options available. The range conforms to the European standard EN 1125:2008 on panic exit devices, is CE marked, and is suitable for use on fire rated doors. The standard finish is black, but other finishes are available to special order.

Outside access is provided by the Modular handle, which is available with either a lever handle or round knob for operation. Both options are supplied complete with a 40mm long euro-profile standard differ single cylinder and suit up to 60mm thick doors. Modular handles can be supplied keyed alike or master keyed to special order. The Modular handle also has 'Captive Key' function, which when engaged means the unit must be locked to remove the key.

The UNIVERSAL is suitable for use on mid-rails of doors made of steel, timber, aluminium and PVCu and due to the depth of the mechanism they are ideal for the retrofit market and for replacing other makes of surface fixed panic bolt.

■ CE Mark - Classification **[3]7[6]B11322[A]A**

■ Standards - Conforms to EN 1125:2008 for doors on hinges or pivots weighing up to 200kg, less than 2520mm high and 1320mm wide. Type A with push-bar operation. Projection of the device from the door surface less than 100mm (Class 2). Tested to 200,000 cycles. Grade 3 corrosion resistance (96 hours NSS). Refer to our website for DoP No DA 0113_B_V1.

■ Fire - Suitable for use on fire and smoke door assemblies.

■ Construction - Steel latch bolts, steel mechanism with zinc alloy covers, steel rods and steel cross bar.

■ Finish - This is a single boxed product and standard stocked finish is all black; central mechanisms, rods, pullman latches and cross bar. However, different finish combinations can be achieved by ordering the cross bar and rods in the various special finishes as shown on page 193. Central mechanisms and pullman latches are always black.

■ Hanging - Reversible, non-handed centre latch mechanism. Suitable for single leaf doors or pairs of doors, active or inactive leaf.

■ Sizes - Supplied as standard with rods to suit doors up to 2210mm high, and a 900mm cross bar to suit doors up to 1200mm wide. Longer rods available to suit doors up to 2680mm and 3140mm high. A longer cross bar of 1400mm is also available for wider doors. Cross bars should be cut as close to the opening width as possible but not less than 60% of the opening width.

■ Installation - Fast, easy installation on narrow profiles. Full fitting details and fixings supplied. Recommended cross bar height 900-1100mm from FFL. Steel latch strike plate included with three steel spacer shims.

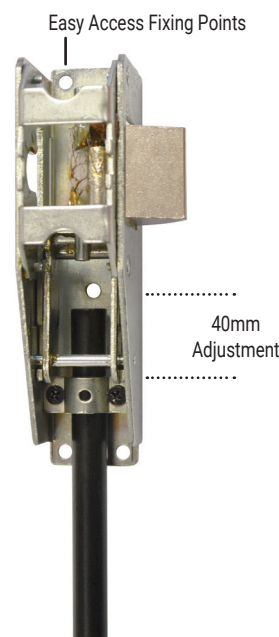
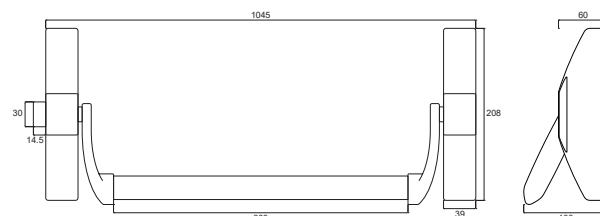
■ OAD - Optional external "Modular" outside access device. Two types available; lever or knob operation. Both options have 'Captive Key' function which when engaged means the unit must be locked to remove the key. Supplied black as standard.

■ Signage - Supplied with free issue A0300.30-SAV "PUSH BAR TO OPEN" sign, 300x60mm, white on green self-adhesive vinyl.

■ Micro-switch - Available with micro-switch to special order to detect when device is operated or to work with a delayed egress system. The auxiliary support only (hinge side) of the two-part central mechanism must be ordered separately containing the micro-switch fitted. Item SOPSECUNM on page 193 refers.

■ CAD drawing - CAD files available, both DXF and DWG format. Please contact us for information.

■ Accessories - All components listed on pages 193. Latchtrack threshold on page 22. Door co-ordinators on pages 131-135. Running man signage on page 172.



ONE POINT LOCKING



TU1040.00

TWO POINT LOCKING



TU1240.0Z

THREE POINT LOCKING



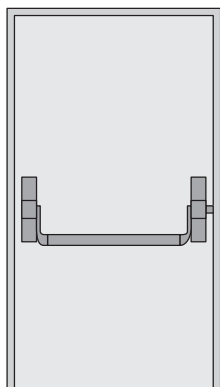
TU1241.0Z

"MODULAR" OUTSIDE ACCESS DEVICE



MMODMBT5NE (Lever Option)

TESA UNIVERSAL RIM PANIC EXIT DEVICES



SINGLE PANIC LATCH

With standard side latch
(all components black)

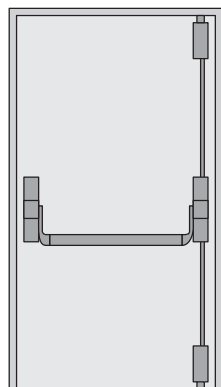
Ref. **TU1040.00**

Comprising:

1910908NN

complete unit

£107.47 set



SINGLE PANIC BOLT (2 POINT)

Using vertical top & bottom latches
with central side latch nullified

(all components black)

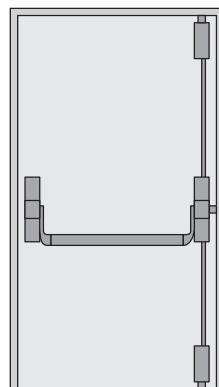
Ref. **TU1240.0Z**

Comprising:

1930908NN

complete unit

£142.92 set



SINGLE PANIC BOLT (3 POINT)

Using top, bottom & central latches
with central side latch active

(all components black)

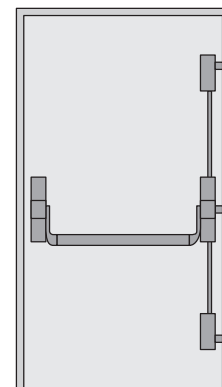
Ref. **TU1241.0Z**

Comprising:

1950908NN

complete unit

£161.29 set



SINGLE PANIC BOLT (3 POINT)

Using three side latches
with central side latch active

(all components black)

Ref. **TU1246.0Z**

Comprising:

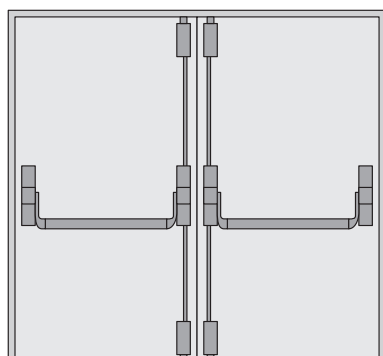
195L908NN

complete unit

£179.70 set



ASSA ABLOY



DOUBLE DOOR PANIC BOLT SET

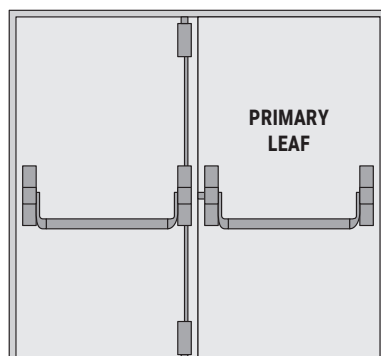
Plain meeting stiles
with both central side latches nullified

(all components black)

Ref. **TU2480.0Z**

Comprising: (2 x **TU1240.0Z**)

£285.85 set



DOUBLE DOOR PANIC BOLT SET

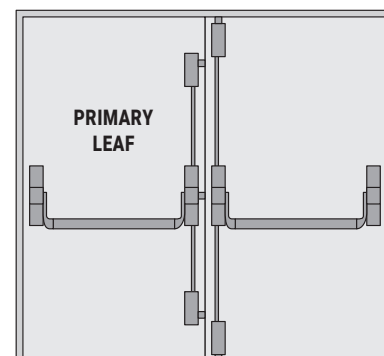
Standard set for rebated meeting stiles or astragal
with one central side latch nullified

(all components black)

Ref. **TU2481.0Z**

Comprising: (**TU1240.0Z** + **TU1040.00**)

£250.39 set



DOUBLE DOOR PANIC BOLT SET

3 point set for rebated meeting stiles or astragal
with one central side latch nullified

(all components black)

Ref. **TU2482.0Z**

Comprising: (**TU1240.0Z** + **TU1246.0Z**)

£372.62 set

FULL BREAKDOWN OF COMPONENT PRICES ON OPPOSITE PAGE

TU = TESA UNIVERSAL

TESA UNIVERSAL RIM PANIC EXIT DEVICES



OUTSIDE ACCESS DEVICES

MODULAR HANDLES					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
MMODMBT5NE	Black	Modular handle, lever handle operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£45.07	each	1
MMODPBT5NE	Black	Modular handle, round knob operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£45.07	each	1
MMODMBT5GR*	Silver	Modular handle, lever handle operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£48.47	each	1
MMODPBT5GR*	Silver	Modular handle, round knob operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£48.47	each	1
MMODMBT5SAT*	Nickel Plated	Modular handle, lever handle operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£75.70	each	1
MMODPBT5SAT*	Nickel Plated	Modular handle, round knob operation, with standard differ euro profile cylinder 3 keyed, to suit 60mm max thickness door	£75.70	each	1



COMPONENTS

Cross bars and vertical rods can be ordered separately in finishes shown to use with the standard black latch mechanisms.

ASSA ABLOY TESA UNIVERSAL CROSS BARS					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
BARH0900N	Black	Standard steel cross bar, 900mm long, oval section	£10.00	each	1
BARH0900P	Silver	Standard steel cross bar, 900mm long, oval section	£15.44	each	1
BARH0900R*	Red	Standard steel cross bar, 900mm long, oval section	£10.00	each	1
BARH0900I*	Satin	Standard stainless steel cross bar, 900mm long, oval section	£38.95	each	1
BARH1400N	Black	Extended steel cross bar, 1400mm long, oval section	£15.47	each	1
BARH1400P	Silver	Extended steel cross bar, 1400mm long, oval section	£21.75	each	1
BARH1400R*	Red	Extended steel cross bar, 1400mm long, oval section	£15.47	each	1
BARH1400I*	Satin	Extended stainless steel cross bar, 1400mm long, oval section	£58.82	each	1



ASSA ABLOY TESA UNIVERSAL VERTICAL TOP RODS - SINGLE ROD ONLY. MUST BE USED IN CONJUNCTION WITH A STANDARD 930MM BOTTOM ROD IN MATCHING FINISH					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
BARV0900N	Black	Standard 930mm long steel vertical top or bottom rod, for doors up to 2210mm high	£5.76	each	1
BARV1400N	Black	1400mm long steel vertical top rod, for doors up to 2680mm high	£9.76	each	1
BARV3050N*	Black	Two-part extended steel vertical top rod, for doors up to 3140mm high	£12.25	each	1
BARV0900P	Silver	Standard steel 930mm long vertical top or bottom rod, for doors up to 2210mm high	£11.09	each	1
BARV1400P	Silver	1400mm long steel vertical top rod, for doors up to 2680mm high	£15.44	each	1
BARV3050P*	Silver	Two-part extended steel vertical top rod, for doors up to 3140mm high	£17.78	each	1
BARV0900I*	Satin	Stainless steel 930mm long vertical top or bottom rod, for doors up to 2210mm high	£12.62	each	1
BARV1400I*	Satin	1400mm long stainless steel vertical top rod, for doors up to 2680mm high	£19.16	each	1
BARV3050I*	Satin	Two-part extended stainless steel vertical top rod, for doors up to 3140mm high	£37.40	each	1



ASSA ABLOY TESA MICRO-SWITCH					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
SOPSECUNM*	Black	Auxiliary support (hinge side) only, fitted with micro-switch	£82.08	each	1



ASSA ABLOY TESA UNIVERSAL STRIKE PLATES					
REF	FINISH	DESCRIPTION	PRICE	UNIT	BOX QTY
CERA1900N	Black	Standard steel side strike plate	£1.68	each	1
CERLL1900	Black	Extended lip steel side strike plate	£2.44	each	1
CERB1900N	Black	Standard floor strike plate	£2.94	each	1



BRITON 376 SERIES PANIC EXIT HARDWARE

EN 1125 CLASSIFICATION 376B1322AA

The Briton 376 Series is a comprehensive range of panic exit hardware suitable for use on single and double door applications. It is supplied as a complete boxed product. Products can be supplied with Pullman latches (.P), alarm facility (.A), or with manual dogging (.D) (not available combined alarmed and dogged). The standard finish is silver (SE) but also available in a range of sprayed finishes and plated metallic finishes. These products are supplied either with metal door strikes and machine screws, or with self-tapping screws suitable for timber and metal doorsets. All panic exit hardware devices include green and white "Push Bar To Open" signs. They have a 5 year guarantee. Refer to our website for Declarations of Performance.

BRITON 378 REVERSIBLE RIM PANIC LATCH, SILVER SE FINISH

- Timber door variant (378) or metal door variant with metal door strike plate and machine screws (378M).
- Tested to EN 1125:2008 on panic exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Suitable for single doors and first opening leaf of double doors with rebated meeting stiles or astragal.
- Supplied right hand, but can be reversed on site to left hand.
- Suitable for doors up to 1300mm wide, push bar may be cut on site.
- Manual dogging (.D) option for hold-open.
- Compatible with 1413 and 9260 outside access devices, also Briton 816 rim cylinder fitted to the outside of the door.
- Refer to our website for DoP No AL-0000402081.

378M.R.SE	with metal door strikes and machine screws	£65.11	each	Box Qty 1
378.R.SE	with wood door strikes and wood screws	£65.11	each	Box Qty 1



BRITON 376 SINGLE PANIC BOLT WITH SHOOT BOLTS TOP AND BOTTOM, SILVER SE FINISH

- Timber door variant (376) or metal door variant with two metal door strike plates and machine screws (376M).
- Tested to EN 1125:2008 on panic exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Two point locking for extra security with top and bottom shoots adjustable by 5mm.
- Anti-thrust device, prevents unauthorised latch retraction.
- Suitable for single and double door applications. Self-handed - will suit both left and right handed doors.
- Durable aluminium die cast body and end boxes with extruded aluminium guides and steel shoot bolts.
- Suitable for doors up to 2500mm high x 1300mm wide (extension rods required to achieve up to 3350mm high).
- Alarmed (.A - requires power) or manually dogged (.D) hold-open options available (but not combined).
- Compatible with 1413 and 9260 outside access devices. Cannot be used with 816 rim cylinder.
- Refer to our website for DoP No AL-0000402080.

376M.SE	with metal door strikes and machine screws	£98.12	each	Box Qty 1
376.SE	with wood door strikes and wood screws	£92.25	each	Box Qty 1



BRITON 376.P SINGLE PANIC BOLT WITH PULLMAN LATCHES TOP AND BOTTOM, SILVER SE FINISH

- Timber door variant (376.P) or metal door variant with two metal door strike plates and machine screws (376M.P).
- With Pullman latches top and bottom.
- Tested to EN 1125:2008 on panic exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Two point locking for extra security with top and bottom shoots adjustable by 5mm.
- Anti-thrust device, prevents unauthorised latch retraction.
- Suitable for single and double door applications. Self-handed - will suit both left and right handed doors.
- Durable aluminium die cast body and end boxes with extruded aluminium guides and steel Pullman latches.
- Suitable for doors up to 2500mm high x 1300mm wide (extension rods required to achieve up to 3350mm high).
- Alarmed (.A - requires power) or manually dogged (.D) hold-open options available (but not combined).
- Compatible with 1413 and 9260 outside access devices. Cannot be used with 816 rim cylinder.
- Refer to our website for DoP No AL-0000402080.

376M.P.SE	with metal door strikes and machine screws	£140.87	each	Box Qty 1
376.P.SE	with wood door strikes and wood screws	£132.13	each	Box Qty 1



BRITON 379.N MORTICE PANIC NIGHT LATCH, SILVER SE FINISH

- Timber door variant (379.N) or metal door variant with metal door strike plate and machine screws (379M.N).
- Tested to EN 1125:2008 on panic exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors. Night latch to be bedded on 1mm intumescent material on timber doors.
- For single doors and the first opening leaf of double doors with plain meeting stiles or astragal.
- Supplied right hand, but can be reversed on site to left hand.
- For doors up to 1300mm wide. Minimum door thickness 40mm and minimum width of stile 88mm.
- Supplied with dual profile cylinder mortice night latch, accepts both euro and oval profile cylinders (cylinder not supplied but available separately).
- Anti-thrust device prevents unauthorised latch retraction.
- Alarmed (.A - requires power) or manually dogged (.D) hold-open options available (but not combined).
- Compatible with 1413 outside access device. Cannot be used with 9260 digital unit and 816 rim cylinder.
- Refer to our website for DoP No AL-0000402082.

379M.N.SE	with metal door strikes and machine screws	£134.60	each	Box Qty 1
379.N.SE	with wood door strikes and wood screws	£134.60	each	Box Qty 1



BRITON 376 SERIES EMERGENCY EXIT HARDWARE

EN 179 CLASSIFICATION 376B1342BA

The Briton 376 Series includes a comprehensive range of emergency exit hardware suitable for use on single and double door applications. It is supplied as a complete boxed product. Products can be supplied with Pullman latches (.P) to order. The standard finish is silver (SE) but also available in a range of sprayed finishes and plated metallic finishes. These products are supplied either with metal door strikes and machine screws, or with self-tapping screws suitable for timber and metal doorsets. All emergency exit hardware devices include green and white "Push to open" signs. They have a 5 year guarantee. Refer to our website for Declarations of Performance.

BRITON 1438 PUSH PAD OPERATED RIM LATCH, SILVER SE FINISH

- Timber door variant (1438) or metal door variant with metal door strike plate and machine screws (1438M).
- Tested to EN 179:2008 on emergency exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Suitable for use on single doors and the first opening leaf of double doors with rebated meeting stiles or astragal.
- Supplied right hand, but can be reversed on site to left hand.
- Suitable for doors up to 1300mm wide.
- Security - Grade 4: 3,000 Newtons.
- Compatible with 1413 and 9260 outside access devices, also Briton 816 rim cylinder fitted to the outside of the door.
- Refer to our website for DoP No AL-0000402075.

1438M.R.SE	with metal door strikes and machine screws	£69.68	each	Box Qty 1
1438.R.SE	with wood door strikes and wood screws	£69.68	each	Box Qty 1



BRITON 372 PUSH PAD OPERATED VERTICAL BOLT WITH SHOOT BOLTS TOP AND BOTTOM, SILVER SE FINISH

- Timber door variant (372) or metal door variant with two metal door strike plates and machine screws (372M).
- Tested to EN 179:2008 on emergency exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Two point locking for extra security with top and bottom shoots adjustable by 5mm.
- Anti-thrust device, prevents unauthorised latch retraction.
- Suitable for single and double door applications.
- Self-handed - will suit both left and right handed doors.
- Security - Grade 4: 3,000 Newtons.
- Suitable for doors up to 2500mm high x 1300mm wide (extension rods required to achieve up to 3350mm high).
- Compatible with 1413 and 9260 outside access devices. Cannot be used with 816 rim cylinder.
- Refer to our website for DoP No AL-0000402074.

372M.SE	with metal door strikes and machine screws	£84.44	each	Box Qty 1
372.SE	with wood door strikes and wood screws	£82.13	each	Box Qty 1



BRITON 372.P PUSH PAD OPERATED VERTICAL BOLT WITH PULLMAN LATCHES TOP AND BOTTOM, SILVER SE FINISH

- Timber door variant (372.P) or metal door variant with two metal door strike plates and machine screws (372M.P).
- With Pullman latches top and bottom.
- Tested to EN 179:2008 on emergency exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors.
- Two point locking for extra security with top and bottom shoots adjustable by 5mm.
- Anti-thrust device, prevents unauthorised latch retraction.
- Suitable for single and double door applications.
- Self-handed - will suit both left and right handed doors.
- Security - Grade 4: 3,000 Newtons.
- Suitable for doors up to 2500mm high x 1300mm wide (extension rods required to achieve up to 3350mm high).
- Compatible with 1413 and 9260 outside access devices. Cannot be used with 816 rim cylinder.
- Refer to our website for DoP No AL-0000402074.

372M.P.SE	with metal door strikes and machine screws	£136.71	each	Box Qty 1
372.P.SE	with wood door strikes and wood screws	£130.52	each	Box Qty 1



BRITON 389.N PUSH PAD OPERATED MORTICE NIGHT LATCH, SILVER SE FINISH

- Timber door variant (389.N) or metal door variant with metal door strike plate and machine screws (389M.N).
- Tested to EN 179:2008 on emergency exit devices, CE marked and suitable for use on timber (2hr) and steel (4hr) fire doors. Night latch to be bedded on 1mm intumescent material on timber doors.
- For single doors and the first opening leaf of double doors with plain meeting stiles or astragal.
- Supplied right hand, but can be reversed on site to left hand.
- Security - Grade 4: 3,000 Newtons.
- Suitable for doors up to 1300mm wide.
- Supplied with dual profile cylinder mortice night latch, accepts euro and oval profile cylinders (cylinder not supplied).
- Anti-thrust device, prevents unauthorised latch retraction.
- Compatible with 1413 outside access device. Cannot be used with 9260 outside access device or 816 rim cylinder.
- Refer to our website for DoP No AL-0000402076.

389M.N.SE	with metal door strikes and machine screws	£97.20	each	Box Qty 1
389.N.SE	with wood door strikes and wood screws	£97.20	each	Box Qty 1



BRITON OUTSIDE ACCESS DEVICES

A series of outside access devices which can be used with any of the Briton 376 Series and Briton 560-570 Series panic and emergency exit devices as indicated below. They provide a simple means of accessing the door from the outside. They have a 5 year guarantee.

1413 and 9260 OADs have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

- Designed to suite with Briton CE compliant exit devices as indicated below.
- Suitable for doors 40mm to 100mm thick.
- Fixings suitable for timber & metal doorsets.
- Powder coated for additional durability - silver (SE) as standard but metallic plated finishes to order.
- Clearly illustrated instructions and template enabling accurate installation.

BRITON 1413.LE - OUTSIDE ACCESS DEVICE WITH LEVER HANDLE, SILVER SE FINISH

- Suitable for use with all Briton 376 Series and Briton 560-570 Series devices.
- Anti-vandal design includes a clutch mechanism which allows the lever to rotate when the unit is locked.
- Tested up to 200,000 cycles for high traffic applications.
- Long lever provides good grip and easy action.
- Suitable for single or double doors 40-100mm thick. Spindle may be cut to length on-site.
- Optional key retention when unit is in unlocked position by insertion of pin when mounting.
- Fixings suitable for timber and metal doorsets.
- Non-handed. Lever supplied loose to allow easy on-site handing for left and right hand doors.
- Easy retrofit on existing Briton 1413E old style models.
- Common footprint allows 1413.LE lever and 1413.KE knob units to be interchanged.
- Supplied with 40mm euro profile standard differ cylinder (also available keyed alike or master keyed).
- Cylinders can be incorporated into existing master key systems.
- BS 8300 compliant lever.
- Can be supplied without cylinder, reference 1413NC.LE.SE.
- Also available in electro plated finishes PB polished brass, PS polished stainless steel and SS satin stainless steel to special order.
- Clearly illustrated instructions and template enabling accurate installation.
- 5 year warranty.

1413.LE.SE £102.35 each (Box Qty 1)

1413NC.LE.SE* £83.97 each (Box Qty 1)



BRITON 1413.KE - OUTSIDE ACCESS DEVICE WITH KNOB, SILVER SE FINISH

- Suitable for use with all Briton 376 Series and Briton 560-570 Series devices.
- Ergonomic design providing improved grip in wet conditions.
- Easy retrofit on existing Briton 1413E old style models.
- Supplied with 40mm euro profile standard differ cylinder (also available keyed alike or master keyed).
- Cylinders can be incorporated into existing master key systems.
- Optional key retention when unit is in unlocked position by insertion of pin when mounting.
- Non-handed.
- Tested up to 200,000 cycles for high traffic applications.
- Suitable for single or double doors 40-100mm thick. Spindle may be cut to length on-site.
- Fixings suitable for timber and metal doorsets.
- Common footprint allows 1413.LE lever and 1413.KE knob units to be interchanged.
- Can be supplied without cylinder, reference 1413NC.KE.SE.
- Also available in electro plated finishes PB polished brass, PS polished stainless steel and SS satin stainless steel to special order.
- Clearly illustrated instructions and template enabling accurate installation.
- Not recommended for high use areas.
- 5 year warranty.

1413.KE.SE £104.35 each (Box Qty 1)

1413NC.KE.SE* £85.57 each (Box Qty 1)



BRITON 9260 DIGITAL CODE LOCK, PVD-SS FINISH

- Digital code lock option has over 2,000 non-sequential code options.
- Supplied with extra-long spindles for use with Briton exit devices.
- Reversible lever operation for left or right hand applications.
- Code can be changed by removing the unit from the door.
- PVD simulated stainless steel finish, not recommended for coastal or corrosive applications.
- Not compatible with 379.N, 389.N or 573.N.

9260.SS £211.53 each (Box Qty 1)



BRITON 816 - RIM CYLINDER, POLISHED BRASS PB FINISH

- Only for use with Briton 378 and 1438.
- Available in polished brass (PB) as standard, satin nickel plated (SNP) finish to order.
- Should be used in conjunction with cylinder pull or pull handle.
- Suitable for low-traffic doors and occasional key access.

816.PB £8.86 each (Box Qty 1)

This item will be discontinued when stock is sold.



BRITON 376 SERIES ACCESSORIES

BRITON 376/003 - TOP KEEPER, ZINC PLATED ZP FINISH

Spare top keeper for 376 panic bolt, zinc plated finish.

376/003.ZP £5.89 each (Box Qty 1)



BRITON 376ELTS - EXTRA-LONG TOP SHOOT, SILVER SE FINISH

Extra-long top shoots are suitable for use on doors in areas that require the push bar to be in a lower position e.g. schools. It can also be used on doors up to 3350mm high, however doors over 2500mm are outside the scope of EN 1125 and EN 179. It is recommended that bars are fitted 900-1100mm from finished floor level.

376ELTS.SE £19.90 each (Box Qty 1)



BRITON 376FFKP - FLUSH FACE KEEPER PLATE, ZINC PLATED ZP FINISH

For applications where there is a flush head frame, a flush fitting face keeper plate for the top latch can be used to secure the bolt.

376FFKP.ZP £26.42 each (Box Qty 1)



BRITON 376MDS - METAL DOOR STRIKES FOR FLOOR AND HEAD, ELECTRO GALV ZP FINISH

For vertical panic bolts. Comprises two strike plates for top and bottom and one trip plate to activate the top tripper. Supplied as standard with 376M.SE, 376M.P.SE, 372M.SE and 372M.P.SE, but available to order separately as replacements.

376MDS.ZP £24.01 pair (Box Qty 1)



BRITON 378/316 - LATCH KEEPER PLATE, SILVER SE FINISH

Spare latch keeper plate for 378 rim panic latch, silver finish.

378/316.SE £7.86 each (Box Qty 1)



BRITON 378DDS - TIMBER DOUBLE DOOR STRIKE, SILVER SE FINISH

For use with Briton 378 and 1438 on pairs of timber rebated doors.

378DDS.SE £11.24 each (Box Qty 1)



BRITON 378MDS - METAL DOOR STRIKE FOR SIDE, SILVER SE FINISH

For use with Briton 378 and 1438 rim devices on single doors, or on the first opening leaf of a double rebated or astragal application. Supplied as standard with 378M.R.SE and 1438M.R.SE, but available to order separately as a replacement.

378MDS.SE £12.70 each (Box Qty 1)



BRITON 379MDS - METAL DOOR BOX STRIKE, SILVER SE FINISH

For use with Briton 379.N and 389.N mortice panic night latch. Supplied as standard with 379M.N.SE and 389M.N.SE, but available to order separately as a replacement.

379MDS.SE £20.74 each (Box Qty 1)



BRITON 376/931M - PULLMAN LATCH, SILVER SE FINISH

For doors that are subject to high levels of traffic, for example interconnecting doors in high populated areas, Pullman latches on a vertical panic bolt provide a smooth and quiet alternative. Pullman latches are supplied as standard on Briton 376.M.P and 372.M.P. To upgrade existing installations, a single Pullman latch kit 376/931.M is available. These have machine screws, but these products are also available with self-tapping screws suitable for timber and metal doorsets if required (Ref 376/931.SE).

376/931M.SE £32.81 each (Box Qty 1)

This item will be discontinued when stock is sold.



BRITON 1413/310 - REPLACEMENT SHEAR SCREWS FOR 1413E, OLD STYLE OAD, ZINC PLATED ZP FINISH

The old style 1413E lever handle was secured to the body by a special shear screw designed to fail if the lever was severely abused (e.g. attempted break in, or vandalism) ensuring the mechanism was protected from damage. The shear pin could then be simply replaced to restore normal operation. Replacement shear pins ref 1413/310.ZP (3 in a pack).

1413/310.ZP £18.17 pack of 3 (Box Qty 1)



BRITON 1413AP - ADAPTOR PLATE FOR RETROFITTING 1413E, OLD STYLE OAD, SILVER SE FINISH

Adaptor plate for retrofitting 1413E old style OAD unit in place of old style 1413 unit.

1413AP.SE £17.81 each (Box Qty 1)



BRITON 1413EP - EXTENSION PACK FOR 70-100MM DOORS WITH 1413E, OLD STYLE OAD

The old style 1413E was suitable for doors 40-70mm thick. An extension pack was available to suit doors 70-100mm thick.

1413EP.ZP £14.84 each (Box Qty 1)



BRITON 560-570 SERIES EXIT HARDWARE

The Briton 560-570 Series is a stylish modular range of panic exit hardware manufactured by Allegion in Italy and is suitable for use on single and double door applications. At the heart of the system is the activation device which is either a push bar, push pad or touch bar panic latch. Each device can be used on its own to provide single point latching or with the addition of Pullman latches (except 573.N) for multi-point latching. All are fully compliant with EN 1125:2008 or EN 179:2008, are CE marked and have a 5 year guarantee. Refer to our website for Declarations of Performance.

Different latch kits (as shown on page 199) offer the option for both Pullman latches to shoot vertically top and bottom, or shoot horizontally (making three horizontal latches at the top, middle and bottom), or with one Pullman latch shooting vertically and one shooting horizontally (although this makes the unit handed). In all cases the Pullman latches are connected to the push bar or touch bar activation device using a unique adjustable stainless steel Fast-Fix cable which is fully concealed beneath extruded cover channels. This cable replaces the conventional rods and reduces installation time by as much as 50%. When ordering you must order the operating device and the Pullman kit(s) required. According to EN 1125:2008 the width of the touch bar unit should be as near as possible the effective width of the opening and not less than 60% of the width of the opening. White on green self-adhesive vinyl "Push bar to open" sign included (except 581.SE). All four devices below are compatible with the 1413 outside access device, but only 561 and 571 can be used with 9260 digital code unit. See page 196.

Standard finish powder coated silver (operators SES and Pullmans SE), but other electro plated finishes available to special order at extra cost are satin stainless steel (SS), polished stainless steel (PS) and polished brass (PB). Please note that only the operating push bar or touch bar is supplied in the metallic finish and the remaining components are powder coated semi matt black finish, so matching Pullman kits will need to be ordered in BM black finish.

BRITON 561 PUSH BAR OPERATED PANIC EXIT DEVICE

- Available in one width only. Suitable for doors up to 1300mm wide, push bar may be cut on site.
- Panic latch converts to panic bolt with modular cable Pullman latch kits 574.S or 574.V.
- Non-handed, suitable for both left and right hand doors. Side latch may be disabled when fitting to pairs of doors.
- Dogging device (566.DK) and alarm micro-switch (566.AK) options available (see page 199).
- Alternative easy clean bottom striker option available when using vertical Pullman latches (574.STP).
- Compatible with 1413 and 9260 outside access devices (see page 196).
- EN 1125:2008 Classification 377B1422AA. Refer to our website for DoP No AL-0000402084.
- Two hour fire rating on timber doors and steel doors to EN 1634-1.

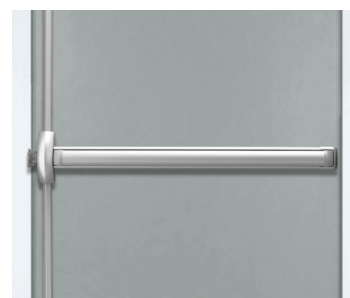
561.SES	Single panic latch (1 point locking)	£147.88	each	Box Qty 1
561.SES/574.S.SE	Single panic bolt with 2 side Pullman latches	£212.83	each	Box Qty 1
561.SES/574.V.SE	Single panic bolt with 2 vertical Pullman latches	£212.83	each	Box Qty 1



BRITON 571 TOUCH BAR OPERATED PANIC EXIT DEVICE WITH GRIP FUNCTION

- Available in two widths: 1200mm (571.1) and 840mm (571.2) which can be cut down on site.
- Panic latch converts to panic bolt with modular cable Pullman latch kits 574.S or 574.V.
- Non-handed, suitable for both left and right hand doors. Side latch may be disabled when fitting to pairs of doors.
- Grip function on the touch bar design enables the door to be pulled closed.
- Dogging device (576.DK) and alarm micro-switch (576.AK) options available (see page 199).
- Alternative easy clean bottom striker option available when using vertical Pullman latches (574.STP).
- Compatible with 1413 and 9260 outside access devices (see page 196).
- EN 1125:2008 Classification 377B1422BA. Refer to our website for DoP No AL-0000402085.
- Two hour fire rating on timber doors and steel doors to EN 1634-1.

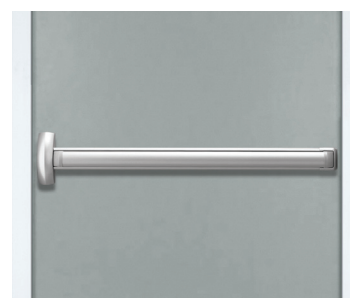
571.1.SES	Single panic latch (1 point locking), 1200mm	£155.07	each	Box Qty 1
571.1.SES/574.S.SE	Single panic bolt with 2 side Pullman latches	£246.45	each	Box Qty 1
571.1.SES/574.V.SE	Single panic bolt with 2 vertical Pullman latches	£246.45	each	Box Qty 1
571.2.SES	Single panic latch (1 point locking), 840mm	£146.69	each	Box Qty 1
571.2.SES/574.S.SE	Single panic bolt with 2 side Pullman latches	£235.75	each	Box Qty 1
571.2.SES/574.V.SE	Single panic bolt with 2 vertical Pullman latches	£235.75	each	Box Qty 1



BRITON 573.N TOUCH BAR OPERATED PANIC EXIT DEVICE WITH MORTICE NIGHTLATCH

- Available in two widths: 1200mm (573.N.1) and 840mm (573.N.2) which can be cut down on site.
- Supplied with cylinder mortice nightlatch with anti-thrust feature to prevent manipulation of the latch when the door is closed. Steel box striker supplied. Mortice lock is supplied for right hand doors but can be reversed on site.
- Grip function on the touch bar design enables the door to be pulled closed.
- Mortice nightlatch accepts euro and oval profile cylinders (cylinder not included, order separately).
- Only suitable for use on single doors.
- Single latching only, not suitable for use with modular Pullman latch kits.
- Alarm micro-switch (576.AK) option available (see page 199), but not dogging device.
- Compatible with 1413 outside access devices (see page 196) but not 9260.
- EN 1125:2008 Classification 377B1422BA. Refer to our website for DoP No AL-0000402086.
- Two hour fire rating on timber doors and steel doors to EN 1634-1 (nightlatch to be bedded on 1mm intumescent material on timber doors).

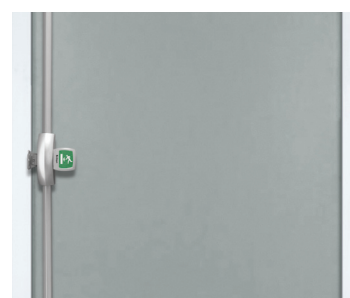
573.N.1.SES*	Mortice panic latch (1 point locking), 1200mm	£260.48	each	Box Qty 1
573.N.2.SES*	Mortice panic latch (1 point locking), 840mm	£248.94	each	Box Qty 1



BRITON 581 PUSH PAD OPERATED EMERGENCY EXIT DEVICE (EN 179:2008)

- Complies with EN 179:2008 suitable for emergency exit applications only where the exit door is in a low occupancy environment and will only be used by trained personnel.
- Push pad converts to panic bolt with modular cable Pullman latch kits 574.S or 574.V.
- Non-handed, suitable for both left and right hand doors. Side latch may be disabled when fitting to pairs of doors.
- Alternative easy clean bottom striker option available when using vertical Pullman latches (574.STP).
- Compatible with 1413 outside access devices (see page 196) but not 9260.
- EN 179:2008 Classification 377B1452BA. Refer to our website for DoP No AL-0000402077.
- Two hour fire rating on timber doors and steel doors to EN 1634-1.

581.SE	Single push pad (1 point locking)	£122.49	each	Box Qty 1
581.SE/574.S.SE	Single push pad with 2 side Pullman latches	£221.32	each	Box Qty 1
581.SE/574.V.SE	Single push pad with 2 vertical Pullman latches	£243.87	each	Box Qty 1



PLEASE REFER TO PAGE 196 FOR DETAILS AND PRICES OF OUTSIDE ACCESS DEVICES

BRITON 560-570 SERIES ACCESSORIES

BRITON 574.S - SIDE SHOOTING FAST-FIX CABLE MODULAR PULLMAN LATCH KIT, SILVER SE FINISH

Side Pullman latch kit, non-handed, including two side latches, snap-on covers, mounting plates, cables, cable covers and strike plates for use with either Briton 561, 571 or 581. Not suitable for Briton 573.

574.S.SE £119.81 kit (Box Qty 1)

BRITON 574.V - VERTICAL SHOOTING FAST-FIX CABLE MODULAR PULLMAN LATCH KIT, SILVER SE FINISH

Vertical Pullman latch kit, non-handed, including two vertical latches, snap-on covers, mounting plates, cables, cable covers and strike plates for use with either Briton 561, 571 or 581. Not suitable for Briton 573.

574.V.SE £121.38 kit (Box Qty 1)

BRITON 574.VS - VERTICAL & SIDE SHOOTING FAST-FIX CABLE MODULAR PULLMAN LATCH KIT, SILVER SE FINISH

Combination Pullman latch kit, handed, including one vertical (top) and one side (bottom) latches, snap-on covers, mounting plates, cables, cable covers and strike plates for use with either Briton 561, 571 or 581. Not suitable for Briton 573.

574.VS.L.SE* £117.55 Left Hand kit (Box Qty 1)

574.VS.R.SE* £117.55 Right Hand kit (Box Qty 1)

BRITON 574.AS - ADDITIONAL SIDE PULLMAN LATCH, SILVER SE FINISH

Additional side Pullman latch, handed, extra single latch to provide additional latching point(s) enabling maximum five point latching on single door.

574.AS.L.SE £67.89 Left Hand latch (Box Qty 1)

574.AS.R.SE £67.89 Right Hand latch (Box Qty 1)

BRITON 574.STE - EASY CLEAN SOCKET, MATT BLACK BM FINISH

Easy clean socket for use with lower Pullman latches on either Briton 561, 571 or 581.

574.STE.BM £15.92 each (Box Qty 1)

BRITON 574.STP - STRIKE FOR PVCU DOORS, MATT BLACK BM FINISH

Adjustable strike for PVCu doors and frames with either Briton 561, 571 or 581. For use with top or side Pullmans fitted to PVCu frames with a projection of 14-24mm.

574.STP.BM £31.78 each (Box Qty 1)

BRITON 566.AK - ALARM SWITCH KIT FOR BRITON 561

Alarm switch kit for use with Briton 561 only, mounted in end box of panic latch operator. Supplied separately for customer to fit. This unit allows standard models to be connected to electronic audio/visual alarm or door control systems giving immediate notification of use when the panic device is operated. The door cannot be opened without the system being activated.

566.AK* £26.43 kit (Box Qty 1)

BRITON 566.DK - DOGGING DEVICE, MATT BLACK BM OR SILVER SE FINISH

Dogging device (hold-open) kit for use with Briton 561 only, key operated to hold the operator in the open position. This unit allows standard models to be upgraded to permit free access when required. The manual hold-open function is operated by a key and holds all latches in the withdrawn position. Supplied separately for customer to fit.

566.DK.BM* £26.43 kit (Box Qty 1)

566.DK.SE* £26.43 kit (Box Qty 1)

BRITON 576.AK - ALARM SWITCH KIT FOR BRITON 571 AND 573

Alarm switch kit for use with Briton 571 and 573 only, mounted in end box of panic latch operator. Supplied separately for customer to fit. This unit allows standard models to be connected to electronic audio/visual alarm or door control systems giving immediate notification of use when the panic device is operated. The door cannot be opened without the system being activated.

576.AK £26.43 kit (Box Qty 1)

BRITON 576.DK - DOGGING DEVICE, MATT BLACK BM OR SILVER SE FINISH

Dogging device (hold-open) kit for use with Briton 571 only, key operated to hold the operator in the open position. This unit allows standard models to be upgraded to permit free access when required. The manual hold-open function is operated by a key and holds all latches in the withdrawn position. Supplied separately for customer to fit. Not suitable for Briton 573.

576.DK.BM* £26.43 kit (Box Qty 1)

576.DK.SE £26.43 kit (Box Qty 1)

BRITON 576.RE - TOP ROD EXTENSION KIT, MATT BLACK BM OR SILVER SE FINISH

Top rod extension kits are suitable for use with both Briton 561 and 571 devices on doors in areas that require the push bar or touch bar to be in a lower position e.g. schools. These can also be used on doors up to 3350mm high, however doors over 2500mm high are outside the scope of EN 1125:2008. Cable covers are supplied either matt black BM or silver SE finish.

576.RE.BM* £25.02 kit (Box Qty 1)

576.RE.SE £25.18 kit (Box Qty 1)

BRITON 376/330/00 - "PUSH BAR TO OPEN" SIGN, WHITE ON GREEN

Replacement "Push bar to open" sign with tick on LH side. 500mm wide x 90mm wide, self-adhesive vinyl. White letters on green background with white border. As supplied as standard with Briton panic bolts.

376/330/00-SAV £7.05 each (Box Qty 1)



BRITON PANIC AND EMERGENCY EXIT HARDWARE



BRITON 376 SERIES PUSH BAR OPERATED PANIC EXIT DEVICES EN 1125, SE SILVER FINISH				
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
378M.R.SE	Push bar - rim panic latch c/w metal door strike & machine screws, RH (site reversible to LH)	£65.11	each	1
378.R.SE	Push bar - rim panic latch c/w wood door strike & wood screws, RH (site reversible to LH)	£65.11	each	1
376M.SE	Push bar - vertical panic bolt, standard shoots c/w metal door strikes & machine screws	£98.12	each	1
376.SE	Push bar - vertical panic bolt, standard shoots c/w wood door strikes & wood screws	£92.25	each	1
376M.P.SE	Push bar - vertical panic bolt, Pullman latches c/w metal door strikes & machine screws	£140.87	each	1
376.P.SE	Push bar - vertical panic bolt, Pullman latches c/w wood door strikes & wood screws	£132.13	each	1
377M.SE	Push bar - double rebated door panic set, standard shoots c/w metal door strikes & machine screws, comprising 376M.SE and 378M.R.SE (reversible)	£154.84	each	1
377.SE	Push bar - double rebated door panic set, standard shoots c/w wood door strikes & wood screws, comprising 376.SE, 378.R.SE (reversible) and 378DDS.SE strike	£154.84	each	1
377M.P.SE	Push bar - double rebated door panic set, Pullman latches c/w metal door strikes & machine screws, comprising 376M.P.SE and 378M.R.SE (reversible)	£205.98	each	1
377.P.SE	Push bar - double rebated door panic set, Pullman latches c/w wood door strikes & wood screws, comprising 376.P.SE and 378.R.SE (reversible)	£197.24	each	1
379M.N.SE	Push bar - mortice panic night latch c/w metal door strike & machine screws (cylinder not included)	£134.60	each	1
379.N.SE	Push bar - mortice panic night latch c/w wood door strike & wood screws (cylinder not included)	£134.60	each	1



376.SE

BRITON 376 SERIES PUSH PAD OPERATED EMERGENCY EXIT DEVICES EN 179, SE SILVER FINISH				
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
1438M.R.SE	Push pad - rim latch c/w metal door strike & machine screws, RH (site reversible to LH)	£69.68	each	1
1438.R.SE	Push pad - rim latch c/w wood door strike & wood screws, RH (site reversible to LH)	£69.68	each	1
372M.SE	Push pad - vertical bolt, standard shoots c/w metal door strikes & machine screws	£84.44	each	1
372.SE	Push pad - vertical bolt, standard shoots c/w wood door strikes & wood screws	£82.13	each	1
372M.P.SE	Push pad - vertical bolt, Pullman latches c/w metal door strikes & machine screws	£136.71	each	1
372.P.SE	Push pad - vertical bolt, Pullman latches c/w wood door strikes & wood screws	£130.52	each	1
389M.N.SE	Push pad - mortice night latch c/w metal door strike & machine screws (cylinder not included)	£97.20	each	1
389.N.SE	Push pad - mortice night latch c/w wood door strike & wood screws (cylinder not included)	£97.20	each	1



1438.R.SE

BRITON 376 SERIES ACCESSORIES, SE SILVER FINISH (WHERE APPLICABLE)				
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
376/003.ZP	Top keeper for 376 on timber doors	£5.89	each	1
376ELTS.SE	Extra-long top shoot for doors up to 3350mm high	£19.90	each	1
376FFKP.ZP	Flush face keeper plate for top latch	£26.42	each	1
376MDS.ZP	Metal door strikes for 372 and 376 (sold separately)	£24.01	pair	1
378/316.SE	Latch keeper plate for 378 on timber doors	£7.86	each	1
378MDS.SE	Metal door strike for 378 and 1438 (sold separately)	£12.70	each	1
378DDS.SE	Double door strike for 378 and 1438 on timber doors	£11.24	each	1
379MDS.SE	Metal door box strike for 379 and 389 (sold separately)	£20.74	each	1
376/931M.SE	Single Pullman latch kit, with machine screws for metal doors	£32.81	each	1
376/330/00-SAV	"Push Bar To Open" sign with tick, 500x90mm, white on green, self-adhesive	£7.05	each	1



376MDS.ZP
(shown fitted to 564A threshold on page 22)

BRITON 1413 SERIES OUTSIDE ACCESS DEVICES, SE SILVER FINISH EXCEPT 9260 & 816				
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
1413.LE.SE	Outside access device - lever operated c/w euro-profile cylinder, reversible	£102.35	each	1
1413.KE.SE	Outside access device - knob operated c/w euro-profile cylinder, reversible	£104.35	each	1
1413NC.LE.SE*	Outside access device - lever operated (cylinder not included), reversible	£83.97	each	1
1413NC.KE.SE*	Outside access device - knob operated (cylinder not included), reversible	£85.57	each	1
9260.SS	Briton push button mechanical digital lock with lever handle, reversible, PVD SS (not compatible with 379 or 389)	£211.53	each	1
816.PB	Briton rim cylinder, polished brass, only for use with 378 and 1438	£8.86	each	1



1413.LE.SE

BRITON 560-570 SERIES EXIT HARDWARE

BRITON 560 SERIES PUSH BAR OPERATED PANIC EXIT DEVICE EN 1125, SES SILVER FINISH

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
561.SES	Push bar operated panic exit device - 1 point locking, SES silver	£147.88	each	1

Refer to our website for DoP No UK-PED-DOP-005-0.



561.SES

BRITON 570 SERIES TOUCH BAR OPERATED PANIC EXIT DEVICES WITH GRIP FUNCTION EN 1125, SES SILVER FINISH

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
571.1.SES	Touch bar operated panic exit device - 1 point locking, 1200mm, SES silver	£155.07	each	1
571.2.SES	Touch bar operated panic exit device - 1 point locking, 840mm, SES silver	£146.69	each	1

Refer to our website for DoP No UK-PED-DOP-006-0.



571.1.SES

BRITON 570 SERIES TOUCH BAR OPERATED PANIC EXIT DEVICES WITH MORTICE NIGHTLATCH EN 1125, SES SILVER FINISH

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
573.N.1.SES*	Touch bar operated panic exit device c/w reversible mortice nightlatch (cylinder not included) with grip function - 1 point locking, 1200mm, SES silver	£260.48	each	1
573.N.2.SES*	Touch bar operated panic exit device c/w reversible mortice nightlatch (cylinder not included) with grip function - 1 point locking, 840mm, SES silver	£248.94	each	1

Refer to our website for DoP No UK-PED-DOP-007.



573.N.1.SES

BRITON 560-570 SERIES PUSH PAD OPERATED EMERGENCY EXIT DEVICE EN 179, SE SILVER FINISH

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
581.SE	Push pad operated emergency exit device - 1 point locking, SE silver	£122.49	each	1

Refer to our website for DoP No UK-EED-DOP-004.



581.SE

BRITON FAST FIX CABLE MODULAR PULLMAN LATCHING KITS TO SUIT 560-570 SERIES (NOT 573), SE SILVER FINISH

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
574.S.SE	Two side Pullman latches kit, non-handed, including latches, snap-on covers, mounting plates, cables, cable covers and strike plates, SE silver	£119.81	kit	1
574.V.SE	Two vertical Pullman latches kit, non-handed, including latches, snap-on covers, mounting plates, cables, cable covers and strike plates, SE silver	£121.38	kit	1
574.VS.L.SE*	One vertical (top) and one side (bottom) Pullman latches kit, L/H, SE silver	£117.55	kit	1
574.VS.R.SE*	One vertical (top) and one side (bottom) Pullman latches kit, R/H, SE silver	£117.55	kit	1
574.AS.L.SE	Additional side Pullman latch kit, L/H, SE silver (extra single latch to provide additional latching point), maximum 5 point latching on single door	£67.89	kit	1
574.AS.R.SE	Additional side Pullman latch kit, R/H, SE silver (extra single latch to provide additional latching point), maximum 5 point latching on single door	£67.89	kit	1

Spare cable only for Briton 560-570 Series (Ref 06198 27097) £19.01 each.



574.S.SE



574.V.SE

BRITON ACCESSORIES TO SUIT 560-570 SERIES (AS SPECIFIED BELOW)

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
566.AK*	Alarm switch kit for 561 only, mounted in end box of panic latch	£55.88	kit	1
576.AK	Alarm switch kit for 571 and 573 only, mounted in end box of panic latch	£55.88	kit	1
566.DK.SE*	Dogging device kit for 561 only, key operated, SE silver	£26.43	kit	1
576.DK.SE	Dogging device kit for 571 only, SE silver (not suitable for use with 573)	£26.43	kit	1
574.STE.BM	Easy clean socket for use with lower Pullman on 560/570/580 - BM matt black only	£15.92	pack	1
574.STP.BM	Adjustable strike for use with top or side Pullmans on PVCu doors, projection 14-24mm - BM matt black only	£31.78	each	1
576.RE.SE	Top rod extension kit for use with 560/570/580 on doors up to 3350mm high, SE silver cable covers	£25.18	kit	1
376/330/00-SAV	"Push Bar To Open" sign with tick, 500x90mm, white on green, self-adhesive	£7.05	each	1



566.DK.BM



566.AK



574.STE.BM



574.STP.BM

BRITON OUTSIDE ACCESS DEVICES TO SUIT 560-570 SERIES, SE SILVER FINISH (WHERE APPLICABLE)

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
1413.LE.SE	Outside access device - lever operated c/w euro-profile cylinder, reversible	£102.35	each	1
1413.KE.SE	Outside access device - knob operated c/w euro-profile cylinder, reversible	£104.35	each	1
1413NC.LE.SE*	Outside access device - lever operated (cylinder not included), reversible	£83.97	each	1
1413NC.KE.SE*	Outside access device - knob operated (cylinder not included), reversible	£85.57	each	1
9260.SS	Briton push button digital lock with lever handle, reversible, PVD SS (not for use with 573)	£211.53	each	1



1413/LE.SE



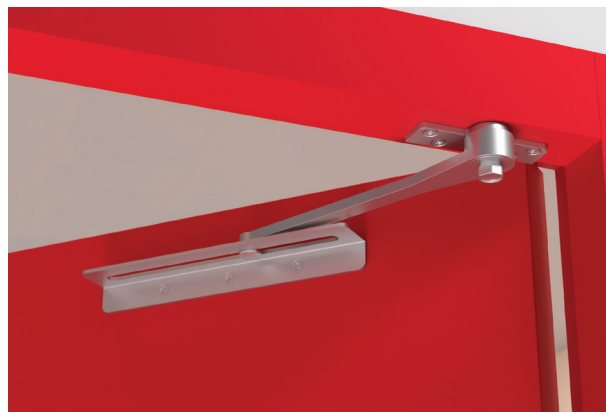
1413/KE.SE

Z105-Z SURFACE FIXING FRICTION DOOR STAY

The Z105-Z is a heavy pattern surface fixing friction door stay manufactured in both mild steel and stainless steel. Mild steel units are zinc plated before being powder coated to RAL 9022, which makes them suitable for external use. However this door stay is also available in barrelled finish Grade 304 stainless steel for use in aggressive conditions. Please note this is not an architectural stainless finish; barrelled finish looks very different to satin stainless steel. Although stainless steel stays are not the cheapest on the market they will not succumb to corrosion and will continue to operate effectively for years to come.

FEATURES

- Heavy duty, surface fixing, friction door stay.
- Will restrict opening angle to approximately 90 degrees.
- Friction can be easily adjusted by rotating hexagonal bolt with spanner.
- Suitable for timber and steel doors.
- Available in mild steel and stainless steel.



Mild steel and stainless steel patterns have the same dimensions. The Z105-Z measures 229mm from centre to centre of arm. To adjust the friction, tighten or loosen the locknut on the friction box using a spanner.

65mm spacing from the hinge axis will give an opening angle of approximately 90°. Decrease this dimension for greater angles (e.g. 95° - 100°) or increase the dimension for restricting the door to approximately 80° - 85°.

If more or less friction is required, adjust the hexagonal bolt accordingly. It is important that the friction is checked and adjusted regularly and that the bolt is not overtightened. This device is designed to control the speed of opening and closing: it is not a door stop or holder. To prevent damage to the door or adjacent cladding, a supplementary door stop should be fitted, particularly if the building is in an exposed position.

Since it is a surface fixing product, this door stay is suitable for use on both timber and steel doors.

CORROSION

Both Z105-Z and Z105ST have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



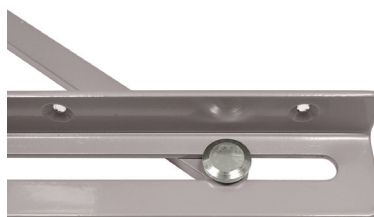
MILD STEEL



STAINLESS STEEL



FRICTION BOX (adjust with spanner)



SLIDE ARM

REF	DESCRIPTION	PRICE	UNIT	BOX QTY	OUTER QTY
Z105-Z	Electro zinc plated mild steel, RAL 9022 grey finish	£22.88 [▲]	each	5	40
Z105ST	Grade 304 stainless steel, barrelled finish	£82.28	each	5	40

[▲] £21.25 each when ordering outer carton of 40.

Z102-Z MORTICE DOOR LIMITING STAY

The Z102-Z is a mortice overhead limiting stay which limits the opening angle of a door to 90 degrees. Since it is a morticed product, it is primarily for use on timber doors. It is reversible so is suitable for either left hand or right hand doors. It can also be used on double action doors.

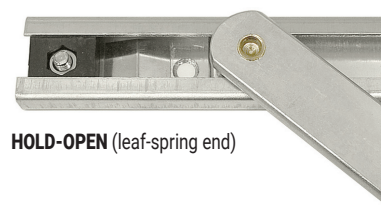
The channel is morticed into the top of the door, and the head plate fits under the soffit. It is manufactured from mild steel with electro zinc-plated finish. There is a leaf spring at one end of the channel, and by reversing the channel it can be fitted to either hold the door open (leaf spring fitted nearest the door jamb) or function as a non-hold open stay (blank end fitted nearest the door jamb).

This product is supplied complete with seven #6 x 19mm BZP countersunk wood screws.

Since this limit stay is often used on outward opening external doors, all parts are electro zinc plated to extend life. The channel is 357mm long x 30mm wide x 12mm deep. The minimum door leaf width for doors fitted with butt hinges is 610mm.

Successfully tested to Grade 3 (96 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Z102-Z Electro zinc plated steel £9.08 each (Box Qty 5)
£9.01 each (Price when ordering outer carton of 40)



HOLD-OPEN (leaf-spring end)



NON-HOLD OPEN (blank end)

Z130 PVCU DOOR CONCEALED RESTRICTOR

The Z130 concealed door stay has a 16mm wide x 330mm long channel track and is specifically designed for recessing into the standard Euro groove profile at the top of the door. A Euro groove is an industry standard feature on most PVCu doors but also features on some aluminium and timber doors. This is the groove in the door edge where multi-point locks, espagnolette bolts and door stays are fitted. It is always 16mm for PVCu, but can be 20mm in timber.

Typically used on PVCu conservatory doors, patio doors and French doors the Z130 suits either hand of door and both inward or outward opening doors. It has an opening angle of up to 125 degrees but the channel has multiple fixing holes to locate the nylon end stop which allows smaller opening angles to be set (adjustable stop position). When the door is in the closed position the door restrictor is totally concealed and when it is open the arm and head frame plate are visible.

It has an aluminium channel track, stainless steel arm and zinc alloy head frame plate so it is suitable for external use. It has an adjustable "stop" position to limit the opening angle of the door and prevent the door swinging into walls, downpipes, projecting sills and garden furniture. Friction is also adjustable by means of an adjusting screw in the sliding nylon block to give more control over the door, but please note that over-tightening will result in damage to the door and restrictor. Fixing screws are not supplied with this product.

Z130 Stainless steel and zinc alloy £13.67 each (Box Qty 10)



PART	LENGTH	WIDTH	DEPTH
CHANNEL	330mm	16mm	11mm
ARM	240mm	16mm	-
HEAD PLATE	76mm	16mm	6.5mm



ADJUSTING SCREW



NYLON END-STOP

GARAGE DOOR HOLDERS

The Z113 Reliance door holder is cord operated and has been traditionally used to hold open garage doors. Pulling on the cord releases the door. It has a 380mm long bar, epoxy black finish. (1012 Junior)

Z113 Junior, epoxy black £39.20 pair (Box Qty 1 pr) Only sold in pairs.

The Z114 Reliance door holder is cord operated and has been traditionally used to hold open garage doors. Pulling on the cord releases the door. It has a 610mm long bar, epoxy black finish. (1010 Senior)

Z114 Senior, epoxy black £47.14 pair (Box Qty 1 pr) Only sold in pairs.



7000 SERIES HEAVY DUTY DOOR STAYS

Any door can be subject to all kinds of abuse such as forced, violent openings, and wind and draught conditions. This is particularly true of external doors opening outwards. The use of an overhead holder/stop can control the door opening and prevent damage to hinges, door and frame, and eliminate costly repairs. The 7000 Series door stays are surface mounting and fit underneath the head of the frame and attach to the face of the door. They have a strong spring to absorb some of the opening shock when the door is opened, and a hold-open roller arm to hold the door open from 85° to 110° (5° increments) determined by the mounting position of the stay on the door and frame. To disengage the hold-open and close the door, the door is pulled off the roller arm in the direction of closing. These door stays are widely used by utility companies and the power generation industry, also in high traffic areas.



SHOCK ABSORBING SPRING AND ADJUSTABLE HOLD-OPEN TENSION

The door stay includes a heavy duty shock absorbing spring which provides 3° to 5° cushion before dead-stop. The roller arm engages on the frame bracket as the door is opened and holds the door open from 85° to 110°. To close the door, the door is pulled off the roller arm in the direction of closing. The tension of the hold-open can be adjusted using a spanner on the nut at the end of the rod; clockwise to increase hold-open tension and anti-clockwise to decrease it. These door stays have a pull-off holding force of up to 136kg depending on the adjustment of the end nut and roller arm.



Spring absorption and hold-open sequence

DOOR WIDTHS, WEIGHTS, HANDING AND ANGLE OF OPENING

Five sizes to suit heavy duty doors up to the maximum widths as shown in the tables below. Particularly suited to heavy metal doors, maximum door weight 160kg. Only suits hinged single action doors swinging one way. When fitting to hollow metal doors and frames please ensure suitable reinforcement is provided. These door stays are not handed and can be fitted to LH or RH doors. Standard installation from 85° to 110° angle of opening (5° increments) as per fixing instructions. As with any door stay, mounting the door stay closer to the hinge axis allows the door to open to a greater angle.

NOW ALL STAINLESS STEEL AS STANDARD

Previously we offered the standard 7000 Series in a largely stainless steel construction, but it did have some mild steel components. Due to some efficiencies in manufacturing we are now able to offer the 7000 Series as all stainless steel, meaning all components are Grade 304 stainless steel including the rod, spring, nut and fixings. This makes the 7000 Series more suitable for wet or coastal environments to prevent corrosion. It has been successfully tested to Grade 4 (240 hours neutral salt spray exposure), Report No WIL 392103 refers. Obviously therefore there is no longer an N7000 Series.

FIXING PACKS

The 7000 Series is supplied with the choice of four wood screw or four metal thread fixings for the frame bracket, and three bolt-through fixings for the door bracket, suitable for both steel and timber doors. The door bracket bolt thru fixings suit doors 44mm to 51mm thick. As previously stated, all fixings supplied are stainless steel.



Z108/PACK

ANGLE JAMB BRACKET FOR INWARD OPENING DOORS

These door stays are usually mounted internally underneath the head on the push side of opening out external doors. However optional angle bracket ref Z70377 enables this door stay to be mounted on the pull side of the door (pull side mount), thus making it suitable for inward opening doors. This bracket can also be used on the push side of the door when door and transom are flush (push side flush mount). The bracket is US32D satin stainless steel.



Z70377

SUITABILITY FOR FIRE DOORS

The 7000 Series is a hold-open door stay so it cannot be used on fire rated doors in its standard format. However it can be supplied to special order without the hold-open (known as "Stop" function) and these are UL Listed in the US for use on wood fire doors rated up to 90 minutes and metal fire rated doors up to 180 minutes. The 7000 Series has also been assessed by Exova to BS EN 1634.1 as suitable for use on uninsulated steel doors up to 240 minutes, copy of Report No WF 387314 Issue 3 available upon request.

7000 SERIES SPRING REBOUND - SURFACE FIXING						
REF	DESCRIPTION	FINISH	ARM LENGTH	PRICE	UNIT	BOX QTY
Z108.0	#7010 to suit door widths 583-735mm	All stainless steel	370mm	£135.25	each	3
Z108.1	#7011 to suit door widths 736-887mm	All stainless steel	475mm	£135.25	each	3
Z108.2	#7012 to suit door widths 888-1040mm	All stainless steel	561mm	£135.25	each	3
Z108.3	#7013 to suit door widths 1041-1192mm	All stainless steel	646mm	£135.25	each	3
Z108.4	#7014 to suit door widths 1193-1371mm	All stainless steel	741mm	£135.25	each	3
Z108/PACK	Spare fixing pack for Z108 stay	All stainless steel	-	£32.69	each	1
Z70377	Angle jamb bracket for Z108	Stainless steel	-	£57.15	each	1

HD7000 SERIES EXTRA HEAVY DUTY DOOR STAYS

This is the heaviest duty door stay that we sell and is designed for metal doors in extreme conditions and extra heavy duty applications. The door stay alone weighs up to 4.5kg so steel doors and frames will require proper reinforcement to accept it. The principles of operation and many of the details are the same as the 7000 Series on the opposite page, but scaled up because of the size of the product. The HD7000 Series door stays are surface mounting and fit underneath the head of the frame and attach to the face of the door. They have an extra strong spring to absorb some of the opening shock when the door is opened, and a hold-open roller arm to hold the door open from 85° to 110° (5° increments) determined by the mounting position of the stay on the door and frame. To disengage the hold-open and close the door, the door is pulled off the roller arm in the direction of closing. These door stays are widely used by utility companies, marine engineering companies, banks and prisons where large heavy doors are installed.

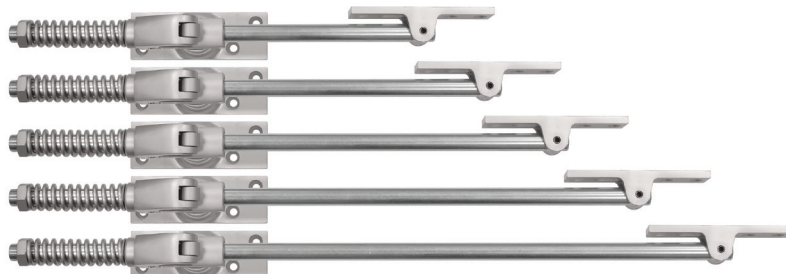
Z108HD.0/HD7010

Z108HD.1/HD7011

Z108HD.2/HD7012

Z108HD.3/HD7013

Z108HD.4/HD7014



SHOCK ABSORBING SPRING AND ADJUSTABLE HOLD-OPEN TENSION

The door stay includes a heavy duty shock absorbing spring which provides 3° to 5° cushion before dead-stop. The roller arm engages on the frame bracket as the door is opened and holds the door open from 85° to 110°. To close the door, the door is pulled off the roller arm in the direction of closing. The tension of the hold-open can be adjusted using a spanner on the nut at the end of the rod; clockwise to increase hold-open tension and anti-clockwise to decrease it.

DOOR WIDTHS, WEIGHTS, HANDING AND ANGLE OF OPENING

Five sizes to suit extra heavy duty doors up to the maximum widths as shown in the tables below. Particularly suited to heavy metal doors, maximum door weight 454kg. Only suits hinged single action doors swinging one way. When fitting to hollow metal doors and frames please ensure suitable reinforcement is provided and the correct fixings are used. These door stays are not handed and can be fitted to LH or RH doors. Standard installation from 85° to 110° angle of opening (5° increments) as per fixing instructions. As with any door stay, mounting the door stay closer to the hinge axis allows the door to open to a greater angle.

MATERIAL, FINISHES AND FIXING PACKS

Plated cold rolled steel is the base material for the HD7000 Series which is painted S1 silver aluminium as standard. On the NHD7000 Series, all the components are stainless steel (non-ferrous) which makes NHD7000 Series more suitable for marine use.

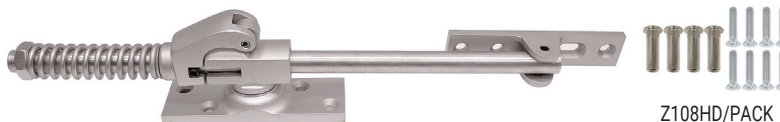
No wood screws are supplied with this product as it is designed for use on steel doors and frames. Four flat head countersunk machine screws 5/16-18 x 1-1/2" are supplied for the frame bracket; four more identical machine screws with 1/2" diameter sex bolt are supplied for the door bracket. The standard sex bolts suit 44-51mm thick doors. These are supplied stainless steel with NHD7000 Series.

SUITABILITY FOR FIRE DOORS

The HD7000 Series is a hold-open door stay so it cannot be used on fire rated doors in its standard format. However it can be supplied to special order without the hold-open (known as "Stop" function) and these are UL Listed in the US for use on wood fire doors rated up to 90 minutes and metal fire rated doors up to 180 minutes. HD7000 and NHD7000 Series have also been assessed by Exova to BS EN 1634.1 as suitable for use on uninsulated steel doors up to 240 minutes, copy of Report No WF 387314 Issue 3 available upon request.

HD7000 SERIES EXTRA HEAVY DUTY - SURFACE FIXING						
REF	DESCRIPTION	FINISH	ARM LENGTH	PRICE	UNIT	BOX QTY
Z108HD.0	#HD7010 to suit door widths 609-761mm	Silver grey	440mm	£309.65	each	1
Z108HD.1	#HD7011 to suit door widths 762-913mm	Silver grey	510mm	£309.65	each	1
Z108HD.2	#HD7012 to suit door widths 914-1014mm	Silver grey	580mm	£309.65	each	1
Z108HD.3	#HD7013 to suit door widths 1015-1218mm	Silver grey	667mm	£309.65	each	1
Z108HD.4	#HD7014 to suit door widths 1219-1371mm	Silver grey	755mm	£309.65	each	1
Z108HD/PACK	Spare fixing pack for Z108HD stay	-	-	£75.14	each	1

Extra heavy duty version of Z108 on opposite page designed for extreme conditions, suffixed "HD". With enlarged spring to absorb shocks when the door is opened. With adjustable hold-open tension. Reversible, non-handed pattern. Silver aluminium paint finish.



Z108HD/PACK

NHD7000 SERIES EXTRA HEAVY DUTY ALL STAINLESS STEEL - SURFACE FIXING						
REF	DESCRIPTION	FINISH	ARM LENGTH	PRICE	UNIT	BOX QTY
NZ108HD.0*	#NHD7010 to suit door widths 609-761mm	All stainless steel	440mm	£492.28	each	1
NZ108HD.1*	#NHD7011 to suit door widths 762-913mm	All stainless steel	510mm	£492.28	each	1
NZ108HD.2*	#NHD7012 to suit door widths 914-1014mm	All stainless steel	580mm	£492.28	each	1
NZ108HD.3*	#NHD7013 to suit door widths 1015-1218mm	All stainless steel	667mm	£492.28	each	1
NZ108HD.4*	#NHD7014 to suit door widths 1219-1371mm	All stainless steel	755mm	£492.28	each	1
NZ108HD/PACK*	Spare fixing pack for NZ108HD stay	-	-	£119.14	each	1

Extra heavy duty version of Z108 on opposite page designed for extreme conditions, suffixed "HD". All stainless steel non-ferrous components prefixed "N" for wet environments to prevent corrosion. With enlarged spring to absorb shocks when the door is opened. With adjustable hold-open tension. Reversible, non-handed pattern. All other details the same as HD7000 Series above.



NZ108HD/PACK

9000 SERIES HEAVY DUTY DOOR STAYS

External doors opening outwards can be subject to all kinds of abuse such as forced, violent openings, and wind and draught conditions. The use of an overhead holder/stop can control the door opening and prevent damage to hinges, door and frame, and eliminate costly repairs. The 9000 Series door stays are top of the range and are surface-mounted to the face of the door with sex bolts and the jamb bracket is surface mounted underneath the head of the frame. They have a strong spring to absorb some of the opening shock when the door is opened, and a hold-open function to allow the door to be held open at a pre-determined angle from 85° to 110°. The hold-open function can be easily turned on or off by simply rotating a knurled roller in the bottom of the channel. To disengage the hold-open and close the door, the door is pulled in the direction of closing.



Friction stay can be toggled between hold-open and non-hold open by turning the knurled roller located at the bottom of the stay.

Z90541

SHOCK ABSORBING SPRING & ADJUSTABLE HOLD-OPEN TENSION

The door stay includes a heavy duty shock absorbing spring which provides 3° to 5° cushion before dead-stop. (The dead-stop position is the position at which the shock absorbing spring is fully compressed.) The friction stay can be toggled between hold-open and non hold-open by turning the knurled roller located at the bottom of the stay channel. Turning the adjusting screw on the top of the channel slider clockwise increases hold-open tension; anti-clockwise decreases it. This is useful to offset exterior wind conditions.

DOOR WIDTHS AND WEIGHTS, HANDING & ANGLE OF OPENING

Eight sizes to suit heavy duty doors up to the maximum widths as shown in the tables below. Particularly suited to heavy metal doors. Only suits hinged single action doors swinging one way. When fitting to hollow metal doors and frames please ensure suitable reinforcement is provided. These door stays are not handed and can be fitted to LH or RH doors. Standard installation from 85° to 110° angle of opening (5° increments) as per fixing instructions. As with any door stay, mounting the door stay closer to the hinge axis allows the door to open to a greater angle.

MATERIAL AND FINISHES

Stainless steel is the base material for the channel, arm and bracket but the spring and other components in the channel are yellow passivated mild steel and the fixings are mild steel. The 9000 Series has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers. On the N9000 Series, all the components are Grade 304 stainless steel including the channel components, spring and fixings. This makes the N9000 Series more suitable for wet or coastal environments to prevent corrosion.

FIXING PACKS

The channel is bolted through the door with two sex bolts provided, to suit doors 44-57mm thick. The jamb bracket is fitted to the frame with either four wood screws or four machine screws provided. On the N9000 Series, these are all stainless steel.

ANGLE JAMB BRACKET FOR INWARD OPENING DOORS

These door stays are usually mounted internally underneath the head on the push side of opening out external doors. However optional angle bracket ref Z90541 enables this door stay to be mounted on the pull side of the door (pull side mount), thus making it suitable for inward opening doors. This bracket can also be used on the push side of the door when door and transom are flush (push side flush mount). The bracket is US32D satin stainless steel so compatible with both door stays below.

SUITABILITY FOR FIRE DOORS

The 9000 Series is a hold-open door stay so it cannot be used on fire rated doors in its standard format. However it can be supplied to special order without the hold-open (known as "Stop" function) and these are UL Listed in the US for use on wood fire rated doors up to 90 minutes and metal fire rated doors up to 180 minutes.

9000 SERIES HEAVY DUTY - SURFACE FIXING							
REF	DESCRIPTION	FINISH	BODY LENGTH	ARM LENGTH	PRICE	UNIT	BOX QTY
Z190.8	#9018 to suit door widths 610-710mm	US32D	480mm	297mm	£186.70	each	3
Z190.1	#9011 to suit door widths 711-761mm	US32D	557mm	325mm	£186.70	each	3
Z190.2	#9012 to suit door widths 762-812mm	US32D	569mm	377mm	£186.70	each	3
Z190.3	#9013 to suit door widths 813-913mm	US32D	585mm	400mm	£186.70	each	3
Z190.4	#9014 to suit door widths 914-1015mm	US32D	616mm	477mm	£186.70	each	3
Z190.5	#9015 to suit door widths 1016-1066mm	US32D	647mm	553mm	£186.70	each	3
Z190.6	#9016 to suit door widths 1067-1116mm	US32D	658mm	591mm	£186.70	each	3
Z190.7	#9017 to suit door widths 1117-1371mm	US32D	674mm	630mm	£186.70	each	3
Z190/PACK	Spare fixing pack for Z190 stay	-	-	-	£42.83	each	1
Z90541	Angle jamb bracket for Z190 and NZ190	Stainless steel	-	-	£57.15	each	1

Heavy duty door stay with a spring to absorb shocks when the door is opened. Surface mounting at top of door. With hold-open facility, which can be disengaged to act as a stop only. Reversible, non-handed pattern. Maximum door opening 110°. Minimum door thickness 44mm. US32D satin stainless steel finish (not all components stainless).



Z190/PACK

N9000 SERIES HEAVY DUTY ALL STAINLESS STEEL - SURFACE FIXING							
REF	DESCRIPTION	FINISH	BODY LENGTH	ARM LENGTH	PRICE	UNIT	BOX QTY
NZ190.8*	#N9018 to suit door widths 610-710mm	All stainless steel	480mm	297mm	£279.54	each	3
NZ190.1*	#N9011 to suit door widths 711-761mm	All stainless steel	557mm	325mm	£279.54	each	3
NZ190.2*	#N9012 to suit door widths 762-812mm	All stainless steel	569mm	377mm	£279.54	each	3
NZ190.3*	#N9013 to suit door widths 813-913mm	All stainless steel	585mm	400mm	£279.54	each	3
NZ190.4*	#N9014 to suit door widths 914-1015mm	All stainless steel	616mm	477mm	£279.54	each	3
NZ190.5*	#N9015 to suit door widths 1016-1066mm	All stainless steel	647mm	553mm	£279.54	each	3
NZ190.6*	#N9016 to suit door widths 1067-1116mm	All stainless steel	658mm	591mm	£279.54	each	3
NZ190.7*	#N9017 to suit door widths 1117-1371mm	All stainless steel	674mm	630mm	£279.54	each	3
NZ190/PACK*	Spare fixing pack for NZ190 stay	-	-	-	£64.12	each	1

Stainless steel surface mounting door limiting stay. With hold-open facility, which can be disengaged to act as a stop only. Reversible, non-handed pattern. Maximum door opening 110°. Minimum door thickness 44mm. US32D satin stainless steel finish. All components are Grade 304 stainless steel, prefixed "N". All other details the same as 9000 Series above.



NZ190/PACK

4000 SERIES MEDIUM DUTY DOOR STAYS

4000 SERIES MEDIUM DUTY - MORTICE FIXING

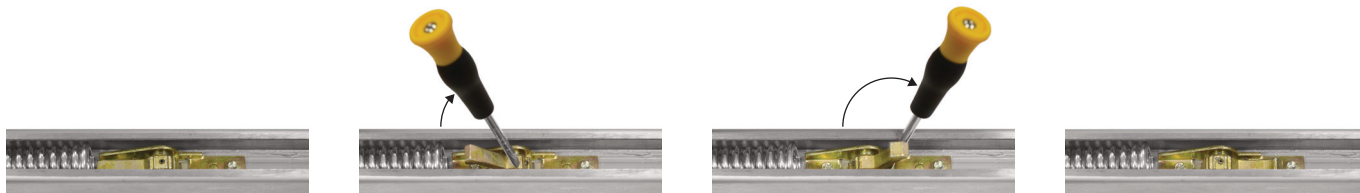
Medium duty door stay with a spring to absorb shocks when the door is opened. Concealed mounting in top of door. With hold open facility which can be disengaged to act as a stop only. Reversible, non-handed pattern. Maximum door opening 110°. Minimum door thickness 35mm.

4000 Series is US32D satin stainless steel finish (not all components stainless). Available to order with all stainless steel components ref N4000 Series.



Z140/PACK

REF	DESCRIPTION	FINISH	BODY LENGTH	ARM LENGTH	PRICE	UNIT	BOX QTY
4000 SERIES MEDIUM DUTY - MORTICE FIXING							
Z140.1	#4011 to suit door widths 457-609mm	US32D	308mm	216mm	£73.27	each	4
Z140.2	#4012 to suit door widths 610-761mm	US32D	356mm	343mm	£73.27	each	4
Z140.3	#4013 to suit door widths 762-913mm	US32D	384mm	418mm	£73.27	each	4
Z140.4	#4014 to suit door widths 914-1219mm	US32D	425mm	532mm	£73.27	each	4
Z140/PACK	Spare fixing pack for Z140 stay	-	-	-	£38.55	each	1
N4000 SERIES MEDIUM DUTY - MORTICE FIXING - ALL STAINLESS STEEL							
NZ140.1*	#N4011 to suit door widths 457-609mm	All Stainless Steel	308mm	216mm	£106.95	each	4
NZ140.2*	#N4012 to suit door widths 610-761mm	All Stainless Steel	356mm	343mm	£106.95	each	4
NZ140.3*	#N4013 to suit door widths 762-913mm	All Stainless Steel	384mm	418mm	£106.95	each	4
NZ140.4*	#N4014 to suit door widths 914-1219mm	All Stainless Steel	425mm	532mm	£106.95	each	4
NZ140/PACK*	Spare fixing pack for NZ140 stay	-	-	-	£56.26	each	1



4000 Series Mortice Fixing: The knurled roller is inaccessible because the stay is mounted in the top of the door, but the hold-open device can still be toggled by using a screwdriver and a set of ladders.

4400 Series Surface Fixing: Friction stay is surface fixing at the top of the door so the knurled roller can be toggled between hold-open and non-hold open by turning the knurled roller located at the bottom of the stay.

4400 SERIES MEDIUM DUTY DOOR STAYS

4400 SERIES MEDIUM DUTY - SURFACE FIXING

Medium duty door stay with a spring to absorb shocks when the door is opened. Surface mounting at top of door. With hold-open facility, which can be disengaged to act as a stop only. Reversible, non-handed pattern. Maximum door opening 110°. Maximum door thickness 60mm.

4400 Series is US32D satin stainless steel finish (not all components stainless). Available to order with all stainless steel components ref N4400 Series.

Optional angle bracket ref Z44443 is available to special order which makes these door stays suitable for inward opening doors.



Z144/PACK

Surface Fixing

REF	DESCRIPTION	FINISH	BODY LENGTH	ARM LENGTH	PRICE	UNIT	BOX QTY
4400 SERIES MEDIUM DUTY - SURFACE FIXING							
Z144.1	#4411 to suit door widths 457-609mm	US32D	371mm	223mm	£83.87	each	4
Z144.2	#4412 to suit door widths 610-761mm	US32D	418mm	293mm	£83.87	each	4
Z144.3	#4413 to suit door widths 762-913mm	US32D	441mm	418mm	£83.87	each	4
Z144.4	#4414 to suit door widths 914-1219mm	US32D	482mm	531mm	£83.87	each	4
Z144/PACK	Spare fixing pack for Z144 stay	-	-	-	£38.55	each	1
N4400 SERIES MEDIUM DUTY - SURFACE FIXING - ALL STAINLESS STEEL							
NZ144.1*	#N4411 to suit door widths 457-609mm	All Stainless Steel	371mm	223mm	£117.75	each	4
NZ144.2*	#N4412 to suit door widths 610-761mm	All Stainless Steel	418mm	293mm	£117.75	each	4
NZ144.3*	#N4413 to suit door widths 762-913mm	All Stainless Steel	441mm	418mm	£117.75	each	4
NZ144.4*	#N4414 to suit door widths 914-1219mm	All Stainless Steel	482mm	531mm	£117.75	each	4
NZ144/PACK*	Spare fixing pack for NZ144 stay	-	-	-	£56.26	each	1

JAMB FIXING INDUSTRIAL DOOR LIMITING STAY

This problem solving door stay is normally fitted at mid-height half way up the door which spreads the load on the hinges and prevents the door warping. It can also be fitted at the bottom of the door or at two thirds height. This means it can supplement any overhead door closer that is not doing its job properly. The channel contains a rubber buffer that acts as a shock absorber when the door reaches its maximum opening angle. The opening angle is determined by the position of the channel on the door. Fitting the channel closer to the hinge axis allows the door to open further whereas fitting the channel further away from the hinge axis reduces the opening angle of the door.

APPLICATIONS

Ideal for industrial applications, pumping stations, electricity sub-stations, plant rooms etc. Not to be used on doors in public areas due to risk of fingers being pinched.

DOOR THICKNESSES

Pattern ZCP033 is the standard size and is suitable for 44mm thick doors hung on conventional butt hinges that are non-projecting. However pattern ZCP044 has been designed for use on thicker doors and doors which are hung on projecting or cranked hinges.

INSTALLATION

The eye piece is screwed on to a convenient position on the door post. It can be screwed to the face or fixed on to the side of the frame going into the masonry with an appropriate baton fixing. The channel can either be screwed to the door or bolted through, depending on wind conditions and door construction. The channel fixing screws are accessed through over-sized holes in the face of the channel. **This product is now universal handed. There is no need to state hand when ordering.**

FINISHES

Manufactured from zinc plated mild steel, and powder coated silver grey finish. Also available in Grade 304 brushed stainless steel.

CORROSION TESTING

ZCP033-SS has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

FIXINGS

Frame bracket drilled and countersunk for #12 screws. Fixings not included.

REPLACEMENTS

Replacement rubber strips are now available in 1 metre lengths. Ref. ZCP/RUBBER.

HOLD-OPEN

Due to customer request we have introduced a hold open option for the mild steel ZCP. When 90 degree hold open is required, and once the door has been opened and initially manually held at 90 degrees, the unique pin chain can be simply moved along the body and inserted into the pre-drilled holes to hold the door open, unassisted, for as long as required. The pin chain is held captive within the ZCP body during normal use.



CLOSED POSITION



OPEN POSITION



STANDARD PATTERN



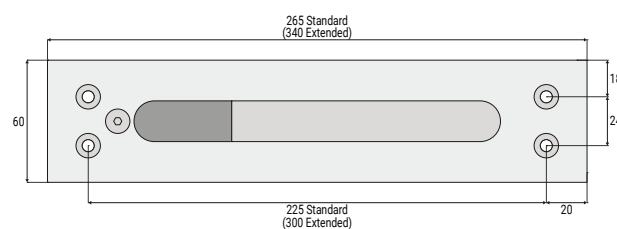
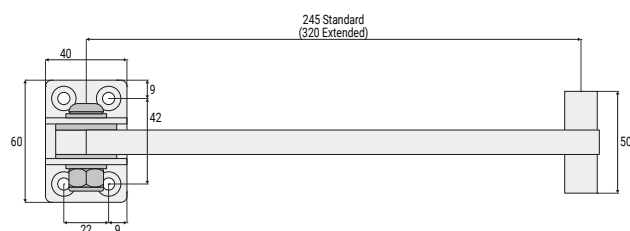
EXTENDED PATTERN



REPLACEMENT RUBBER



90° HOLD-OPEN



REF	DESCRIPTION	FINISH	BODY LENGTH	ARM LENGTH	PRICE	UNIT	BOX QTY
STANDARD PATTERN							
ZCP033-SIL	Jamb door limiting stay, standard pattern	Silver Grey Mild Steel	265mm	245mm	£135.58	each	3
ZCP033-SS	Jamb door limiting stay, standard pattern	Grade 304 Brushed Stainless Steel	265mm	245mm	£321.74	each	3
EXTENDED PATTERN							
ZCP044-SIL	Jamb door limiting stay, extended pattern	Silver Grey Mild Steel	340mm	320mm	£188.05	each	3
ZCP044-SS	Jamb door limiting stay, extended pattern	Grade 304 Brushed Stainless Steel	340mm	320mm	£324.56	each	3
OPTIONAL EXTRAS							
ZCP/RUBBER	Replacement rubber only (metre length)	Black Rubber	-	-	£90.14	metre	1
ZCP-HO	Hold-open option for mild steel ZCP door limiting stays. 73mm long x 8mm diameter steel pin, and 130mm long x 3mm diameter steel chain.	Zinc Plated	-	-	£48.61	each	1

CHANNEL SPRING RECOIL STAY

The Z109 is a surface mounted door stay typically used on open-out external doors. It is a well-proven and versatile door stay, which limits the door's angle of opening and has a spring recoil feature in the channel to cushion the door and act as a shock absorber as it reaches the full extent of its travel. This helps protect the door and frame and also reduces wear on the hinges.

HOLD-OPEN

It also has a hold-open feature that will hold the door open at 90° in the fully open position. The swinging pawl automatically falls into the locking position and keeps the door in the open position. **To close the door, the door must be pushed open even further and this will allow the swinging pawl to disengage and drop down so that the door can be closed.** If the stay is mounted closer to the hinge axis the door will open beyond 90°, but if it is mounted further away from the hinge axis the door will open less than 90°.

WEIGHT

Maximum door weight 125kg.

SIZES

This door stay is available in three sizes to suit different door widths, but the smallest stay is also designed to work on standard width doors fitted with panic bolts. Since the channel is shorter it does not interfere with the panic bolt's vertical rods.

CORROSION

All parts are manufactured from mild steel and are galvanised to afford protection against corrosion. Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.



Clockwise closing (RH) illustrated



Z109.0Z (Short Pattern)



Z109.1Z (Standard Pattern)



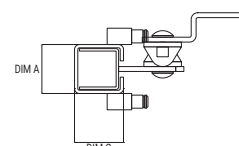
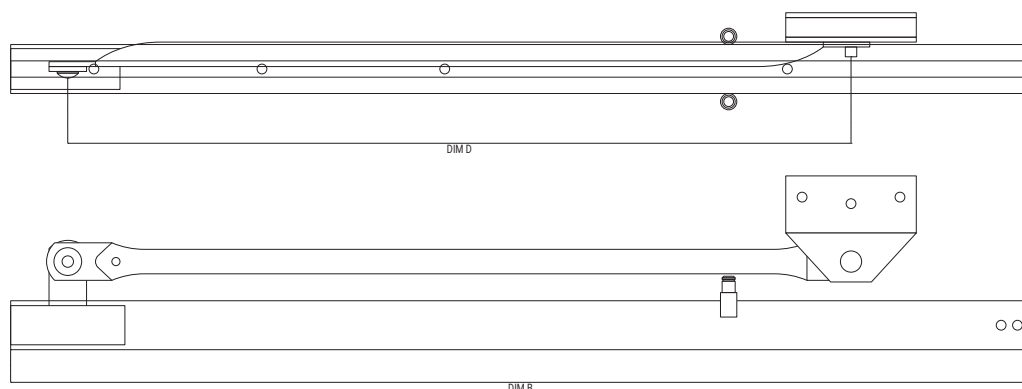
Z109.2Z (Long Pattern)



Z109/SPRING



Z109/PACK



REF	DESCRIPTION	FINISH	DIM A	DIM B	DIM C	DIM D	PRICE	UNIT	BOX QTY
HEAVY DUTY DOOR HOLDER, SPRING RECOIL IN CHANNEL, REVERSIBLE, FIXING PACK AND SPRING INCLUDED									
Z109.0Z	Short pattern, To suit door widths 600mm - 800mm and doors fitted with panic bolts, Max door size 800mm wide x 2100mm high (1.68m ²)	Steel Galvanised	30mm	465mm	30mm	320mm	£50.20	each	10
Z109.1Z	Standard pattern, To suit door widths 800mm - 1100mm, Max door size 1100mm wide x 2100mm high (2.31m ²)	Steel Galvanised	30mm	625mm	30mm	480mm	£53.98	each	10
Z109.2Z	Long pattern, To suit door widths 1100mm - 1300mm, Max door size 1300mm wide x 2100mm high (2.73m ²)	Steel Galvanised	30mm	700mm	30mm	630mm	£62.87	each	10
OPTIONAL EXTRAS									
Z109/SPRING	Spare spring only to suit Z109 stays	Zinc Plated	-	-	-	-	£5.01	each	5
Z109/PACK	Extra fixing pack available to suit Z109 stays, includes swinging pawl, spring not included	-	-	-	-	-	£12.96	pack	5

STAINLESS STEEL DOOR STAYS

Since most door stays are fitted to external outward opening doors they are frequently subjected to damp and moist conditions which can cause some door stays to rust. With this in mind we show separately below our range of door and limit stays that are manufactured from stainless steel. Although these stays are not the cheapest on the market they will not succumb to corrosion and will continue to operate effectively for years to come.

FRICITION DOOR STAY

Stainless steel door friction stay, heavy pattern, stainless steel barrelled finish, 229mm centre to centre of arm. To adjust the friction, tighten or loosen the locknut on the friction box using a spanner. Identical to Z105-Z mild steel pattern on page 202 but manufactured from stainless steel. Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

Z105ST Stainless steel barrelled finish £82.28 each (Box Qty 5)



TELESCOPIC DOOR STAY

Stainless steel telescopic door stay to suit inward and outward opening doors. All components including spring made from Grade 304 satin stainless steel except for mazak fixing brackets and knurled sleeve which are supplied grey finish only. The friction is adjusted by rotating the knurled sleeve. For mild steel versions of this product see page 211.

Z107/RUZZ135-SS To suit door widths 500-700mm £55.88 each (Box Qty 6)

Z107/RUZZ150-SS To suit door widths 700-910mm £61.79 each (Box Qty 6)



JAMB FIXING DOOR LIMIT STAY

Stainless steel jamb fixing industrial door limit stay. Usually fitted at mid-height half way up the door which spreads the load on the hinges and prevents the door warping. It can also be fitted at the bottom of the door or at two thirds height so it does not interfere with an overhead door closer. The channel contains a rubber buffer that acts as a shock absorber when the door reaches its maximum opening angle. Ideal for industrial applications, pumping stations, electricity sub-stations, plant rooms etc. All components Grade 304 stainless steel, brushed finish. Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers. For mild steel version see page 208. This product is now universal handed.

ZCP033-SS Standard pattern £321.74 each (Box Qty 3)

ZCP044-SS Extended pattern £324.56 each (Box Qty 3)



AMERICAN SPRING REBOUND DOOR STAY

American spring recoil pattern. Stainless steel door limiting stay, hold-open pattern, heavy duty, satin stainless steel finish, complete with bolt through fixings. All components stainless steel. Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers. For the full range and details of this door stay, see page 204.

Z108.0 (#7010) To suit door widths 583-735mm £135.25 each (Box Qty 3)

Z108.1 (#7011) To suit door widths 736-887mm £135.25 each (Box Qty 3)

Z108.2 (#7012) To suit door widths 888-1040mm £135.25 each (Box Qty 3)

Z108.3 (#7013) To suit door widths 1041-1192mm £135.25 each (Box Qty 3)

Z108.4 (#7014) To suit door widths 1193-1371mm £135.25 each (Box Qty 3)



STANDARD DUTY DOOR PROTECTOR CHAIN

Continental spring recoil pattern. Stainless steel door protector chain with spring recoil feature and plastic collar to protect against damage. Standard duty for 30-40kg doors, 40x35mm fixing plates. For zinc plated mild steel pattern see Z116.1 on page 212.

Z117.1 Stainless steel, 40x35mm fixing plates £151.01 each (Box Qty 5)



HEAVY DUTY DOOR PROTECTOR CHAIN

Continental spring recoil pattern. Stainless steel door protector chain with spring recoil feature and plastic collar to protect against damage. Heavy duty for 40-60kg doors, 50x45mm fixing plates. For zinc plated mild steel pattern see Z116.2 on page 212.

Z117.2 Stainless steel, 50x45mm fixing plates £212.54 each (Box Qty 5)



TELESCOPIC DOOR BRAKE

Stainless steel telescopic door limit stay offering adjustable cushioning effect. The friction is adjusted by turning the knurled ring. Maximum angle of door opening 125°, and it can be locked in any position within this range. To suit maximum door width 1200mm and height 2200mm, weight up to 100kg. Standard finish satin stainless steel, also available polished to special order. For electro galvanised steel pattern see Z120-EG on page 212.

Z120-SS* Satin stainless steel £591.02 each (Box Qty 1)



TELESCOPIC DOOR & WINDOW STAYS

The extended range of Z107 telescopic door and window stays; the Z107/RUZZT, is available in four sizes to suit windows up to full width doors. The 225mm (stay length) for windows, up to the 525mm for doors all offer the same smooth operation and ease of friction adjustment; friction is easily adjusted on site by rotating the knurled sleeve. The unit contains a spring mechanism that dampens the opening force of the door or window. They are normally fitted in outward opening applications, but a bracket to suit inward opening doors and windows is included as standard with every stay. With metal fixing brackets the range is robust and offers adjustable friction levels.

As well as being available in a wide range of sizes they are also available in various architectural finishes to complement door or window hardware. These being: silver sprayed rod with dark grey brackets, white sprayed rod with white brackets, simulated stainless steel plated rod with black brackets, Grade 304 satin stainless steel rod with dark grey brackets, and new textured black sprayed rod with black brackets (Z107/RUZZT130 and Z107/RUZZT150 only).

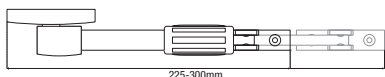


CORROSION

Silver Grey SE finish has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

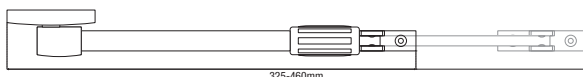
Z107/RUZZT120

Mini Telescopic Door Stay.
For windows only.
Length of stay 225-300mm.



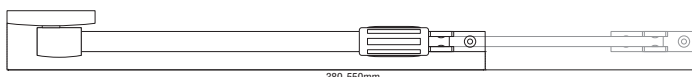
Z107/RUZZT130

Small Telescopic Door Stay.
For windows and very narrow doors.
Length of stay 325-460mm.



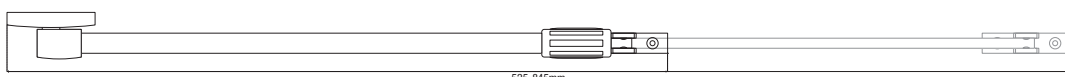
Z107/RUZZT135

Medium Telescopic Door Stay.
For doors 500-700mm.
Length of stay 380-550mm.



Z107/RUZZT150

Large Telescopic Door Stay
For doors 700-910mm.
Length of stay 525-845mm.



SE FINISH (Silver grey sprayed rod and dark grey brackets)



WE FINISH (White sprayed rod and white brackets)



SF FINISH (Simulated satin stainless steel rod and black brackets)



SS FINISH (Real Grade 304 satin stainless steel rod and dark grey brackets)



BE FINISH (Textured black sprayed rod and black brackets)



Z107/L BRACKET

OPENING IN BRACKET

To enable stay to be mounted on opening in doors and windows. Supplied as standard with every stay, discard if not required. Available in all three finishes as below (grey, black, and white).



Z107/CLINCHPIN

OPTIONAL FIXING BRACKET

To convert stay bracket from two to four fixings. Available dark grey only to match SE silver grey sprayed rod. Supplied with two machine screws to attach to stay. £4.72 each (Box Qty 24)



Z107/PVCU BRACKET

OPTIONAL FIXING BRACKET FOR PVCU DOORS

To enable stay to be mounted on standard PVCu sections of outward opening doors and windows. Stay supplied with two machine screws to attach to bracket. Fixings for PVCu not supplied.

Available white only. 70 x 50 x 23mm. £6.72 each (Box Qty 24)



REF	SE (Silver Grey / Grey)	WE (White / White)	SF (Simulated Stainless / Black)	SS (Real Stainless / Grey)	BE (Black / Black)	UNIT	BOX QTY	OUTER QTY
Z107/RUZZT120	£23.37	£23.37	£28.04	£40.91*	-	each	12	48
Z107/RUZZT130	£23.96	£23.96	£28.77	£46.65*	£23.97	each	6	36
Z107/RUZZT135	£24.53	£24.53	£29.44	£55.35	-	each	6	36
Z107/RUZZT150	£25.22	£25.22	£30.27	£61.22	£29.53 NEW	each	6	24

NOTES

See page 212 for other telescopic stays.

Polished brass (PB) finish discontinued but some stock still available.

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

JAMB FIXING DOOR PROTECTOR CHAINS

STANDARD DUTY

Standard duty door protector chain with spring recoil feature and plastic collar to protect against damage.

Continental spring recoil pattern. Fixing position of plate on door determines opening angle.

Available in zinc plated mild steel and stainless steel.

Fixing screws not included.

Standard duty to suit 30-40kg doors.

Z116.1	Zinc plated mild steel, 40x40mm fixing plates	£23.56 each (Box Qty 5)
Z117.1	Stainless steel, 40x35mm fixing plates	£151.01 each (Box Qty 5)



HEAVY DUTY

Heavy duty door protector chain with spring recoil feature and plastic collar to protect against damage.

Continental spring recoil pattern. Fixing position of plate on door determines opening angle.

Available in zinc plated mild steel and stainless steel.

Fixing screws not included.

Heavy duty to suit 40-60kg doors.

Z116.2	Zinc plated mild steel, 55x55mm fixing plates	£41.95 each (Box Qty 5)
Z117.2	Stainless steel, 50x45mm fixing plates	£212.54 each (Box Qty 5)



HEAD FIXING DOOR PROTECTOR CHAIN

VERY HEAVY DUTY

Very heavy duty door protector chain with spring recoil feature and plastic collar to prevent against damage.

Body surface mounted on top of door frame with chain fixed to the top of the door, on the push side.

Fixing position on door determines opening angle.

Zinc plated mild steel finish only.

Fixing screws not included.

Reversible on site to suit LH or RH doors.

Very heavy duty to suit doors up to 500kg.

Z118	Zinc plated mild steel	£123.29 each (Box Qty 1)
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TELESCOPIC FRICTION DOOR STAYS

The Z107.1 is a friction door holder, telescopic pattern, silver grey finish. The friction is adjusted by turning the cylindrical end sleeve. Overall length 310mm. To suit outward opening doors 500-700mm wide.

Z107.1	Silver grey finish	£41.90 each (Box Qty 5, outer 30)
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The Z107.2 is a friction door holder, telescopic pattern, silver grey finish. The friction is adjusted by turning the cylindrical end sleeve. Overall length 450mm. To suit outward opening doors 700-910mm wide.

Z107.2	Silver grey finish	£41.90 each (Box Qty 5, outer 30)
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The Z120 is a telescopic door limit stay (door brake) offering adjustable cushioning effect. It is available in stainless steel or electro galvanised mild steel. The friction is adjusted by turning the knurled ring. Maximum angle of door opening 125°, and it can be locked in any position within this range. To suit maximum door width 1200mm and height 2200mm, weight up to 100kg. Standard finishes satin stainless steel (SS) and electro galvanised mild steel (EG), also available polished stainless steel (PS) to special order.

Z120-SS*	Satin stainless steel	£591.02 each (Box Qty 1)
Z120-EG	Mild steel, electro galv	£217.53 each (Box Qty 1)



FRICTION DOOR STAYS

The Z103 is a door friction stay, 90° pattern, silver finish, measuring 203mm centre to centre of long arm and 95mm centre to centre of short arm. Note upstand at angle joint which limits door to 90° opening.

Z103 Mild steel, silver finish £48.29 each (Box Qty 10)

The Z104 is a door friction stay, 180° pattern, silver finish, measuring 203mm centre to centre of long arm and 127mm centre to centre of short arm.

Z104 Mild steel, silver finish £48.29 each (Box Qty 10)

The Z106 is a door friction stay, light pattern, silver finish, measuring 203mm centre to centre of arm.

Z106 Mild steel, silver finish £49.62 each (Box Qty 10)

The Z110.1 is a friction door limiter (90°), steel galvanised finish to suit inward opening doors. The arm can be disconnected to allow the door to swing open fully. Includes two angle plates.

Z110.1 Steel, galvanised finish £42.42 each (Box Qty 10)

The Z110.2 is a friction door limiter (90°), steel galvanised finish to suit outward opening doors. The arm can be disconnected to allow the door to swing open fully. Includes one angle plate and one flat plate.

Z110.2 Steel, galvanised finish £42.42 each (Box Qty 10)



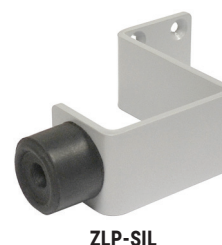
LEICESTER PATTERN WALL MOUNTED BUFFERS

The ZLP has been designed for external outward opening hinged doors to prevent the door opening beyond 90 degrees and slamming into walls. It fits to the wall and projects over the door frame to buffer the door; the 90mm projection allows the bracket to be fitted to the adjacent wall so the frame or architrave is accommodated within the angle. It is recommended to fit this product at mid-height on the frame as this spreads the load on the door, but it may be fitted higher to avoid projection into public thoroughfares at child level.

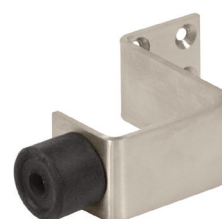
It can be used where a floor mounted doorstop might be considered a trip hazard, or where the bottom of the door is considerably higher than ground level making it infeasible to fit a floor mounted doorstop, such as the Durham Pattern door buffers above. Or it can be used where a door stay or door closer is not desired. Depending on the frame detail, it may also be fitted to the door frame.

The ZLP is manufactured from 4mm thick zinc plated mild steel so is suitable for external use. Standard finish is silver grey paint finish (-SIL). It is also available in Grade 304 stainless steel (-SS). It is supplied complete with a 35mm diameter black rubber buffer (Z035) which is bolted in place. The bracket is drilled four times with 6mm holes countersunk for #12 screws (not supplied). Care is required when specifying this product as its fixing position close to the hinge axis can create a fulcrum when the door comes into contact with it, especially with heavy doors in windy locations. In these situations, a heavier duty doorstop or door stay should be used.

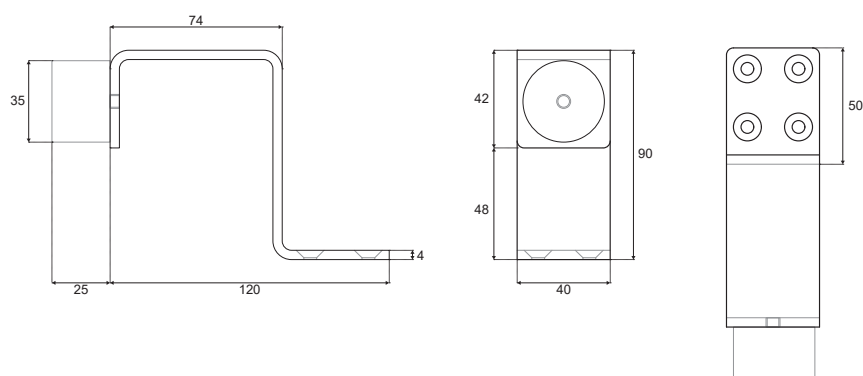
REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZLP-SIL	Medium duty wall mounted door buffer, 70mm projection, powder coated silver grey	£28.44	each	1
ZLP-SS	Medium duty wall mounted door buffer, 70mm projection, brushed stainless steel	£36.29	each	1



ZLP-SIL



ZLP-SS

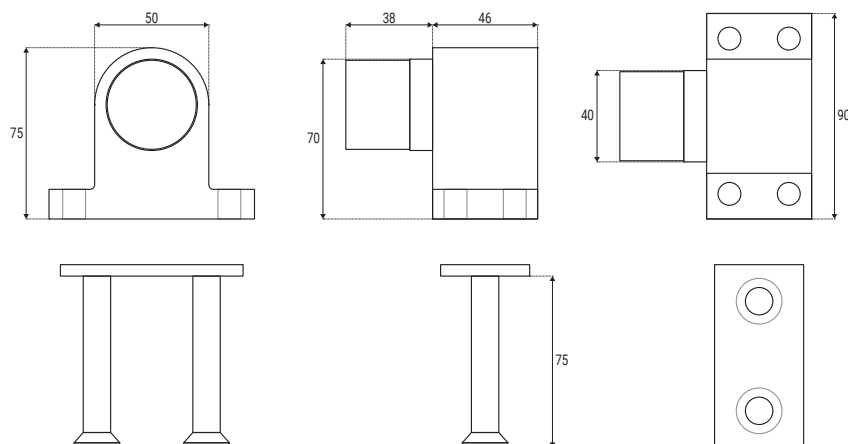


SPRING LOADED DOORSTOP EXTENDED

Heavy duty sprung doorstop suitable for external use. Silver sprayed finish. With 38mm diameter black spring-loaded rubber buffer. Base 90x46mm, casting 75mm high overall. Accepts four heavy duty fixings, not supplied. Suitable for doors weighing up to 100kg. The doorstop should be mounted as far away as possible from the hinge side of the door.

Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z2018HD	Spring-loaded buffer, silver sprayed	£45.48	each	1
Z2018HD-BI NEW	Build in option for concrete fix, including plate and bolts, zinc plated	£63.36	each	1



Z2018HD



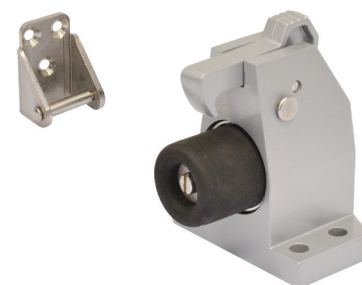
Z2018HD-BI

SPRING LOADED DOOR STOP & HOLDER NEW

The new Z2019HD is a heavy duty floor mounted sprung door stop, which can also hold the door open. The heavy duty spring within the unit acts as a shock absorber if the door is flung open, protecting the door and frame. Each unit is supplied with a stainless steel catch which is mounted on the door face, this catch engages with the hook arm on the main unit when the door is opened, holding the door in the open position. The door is released by simply pressing the hook arm with your foot. The hold open function can be disengaged by sliding the release slider across, meaning the unit operates as a sprung door stop only.

Suitable for doors weighing up to 120kg, the Z2019HD is manufactured from silver sprayed cast aluminium with a base size of 90x55mm and an overall casting height of 110mm, with a 39mm diameter black rubber buffer. Accepts four heavy duty fixings, not supplied. Not suitable for use on fire doors.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z2019HD	Spring loaded door stop and holder, silver sprayed	£153.79	each	1



Z2019HD

DURHAM PATTERN DOOR BUFFERS

"Durham Pattern" heavy duty door buffers. To suit sliding doors and outward opening doors. Suitable for external use. When fitted to the ground they limit the opening angle of external outward opening doors. A heavy duty black rubber door buffer measuring 150 x 50 x 50mm is securely fitted to satin stainless steel angle plate. The ZDP.1 base plate measures at 60 x 150mm while the ZDP.2 base plate measures at 100x150mm, both are drilled with three 10mm holes for bolt fixing to ground. Ground fixings not included.

Grade 304 stainless steel as standard which has been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers. Also available Grade 316 to special order.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZDP.1	Durham Pattern heavy duty door buffer, standard upstand, 60mm high	£49.24	each	1
ZDP.2	Durham Pattern heavy duty door buffer, extended upstand, 100mm high	£52.13	each	1



ZDP.1 (Standard)



ZDP.2 (Extended)

DOOR HOLDERS

Combination floor fixing cylindrical door holder with lock down facility. Operates as a conventional doorstop, or holds the door open by depressing, passing the door over it and releasing. Manufactured from Grade 316 satin stainless steel. Supplied complete with multi purpose rawl plugs and stainless steel screws. The buffer can be locked down to become inoperative by depressing and a quarter turn.

Faceplate 45x45x2.5mm. Cylinder 32mm diameter x 52mm.

Z335 Satin stainless steel £83.68 each (Box Qty 1)



Combination floor fixing cylindrical door holder (no lock down facility). Operates as a conventional doorstop, or holds the door open by depressing, passing the door over it and releasing. Manufactured from Grade 316 satin stainless steel. Supplied complete with multi purpose rawl plugs and stainless steel screws. Tested to 100,000 cycles.

Faceplate 45x45x2.5mm. Cylinder 32mm diameter x 52mm.

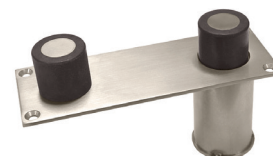
Z345 Satin stainless steel £58.52 each (Box Qty 1)



Cylindrical door stop and holder (no lock down facility) to suit doors up to 55mm thick. Holds the door open between the stops by depressing the first stop, passing the door over it and releasing. Manufactured from Grade 316 satin stainless steel. Supplied complete with multi purpose rawl plugs and stainless steel screws.

Faceplate 125x45x2.5mm. Cylinder 32mm diameter x 52mm.

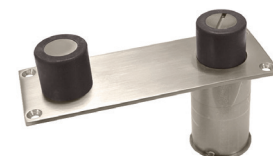
Z370 Satin stainless steel £79.42 each (Box Qty 1)



Cylindrical door stop and holder with lock down facility to suit doors up to 55mm thick. Holds the door open between the stops by depressing the first stop, passing the door over it and releasing. Manufactured from Grade 316 satin stainless steel. Supplied complete with multi purpose rawl plugs and stainless steel screws. The buffer can be locked down to become inoperative by depressing and a quarter turn.

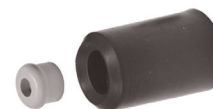
Faceplate 125x45x2.5mm. Cylinder 32mm diameter x 52mm.

Z390 Satin stainless steel £104.91 each (Box Qty 1)



Two-part door buffer and holder. The main black rubber part fixes to the door restraint or wall, and the small grey nylon insert plug fits to the outside of the door. The plug engages in the main part and holds the door open until released. 60mm projection, 40mm diameter base.

Z440 Black rubber/grey nylon insert £20.31 each (Box Qty 10)



Kick down holders are mounted to the bottom of the door on the push side and hold the door open with a reliable grip on the floor. The units provide simple hold and release, activated with a touch of the foot. A stainless steel spring holds the arm in the vertical position when not in use. The arm and plates are manufactured from solid cast aluminium and the rubber bumper is held on with a screw. The arm measures 102mm and has a door to floor clearance of 51mm or less.

Z460R Kick down door stop, silver grey finish £23.18 each (Box Qty 10)



Black iron birds beak door holder. Sometimes also called a gravity door holder or an automatic door catch. Main part fixes to restraint or wall, and small hook fits to outside of door. The main part rides up over the hook and holds the door open until released.

Z1402 (582) Black £26.23 each (Box Qty 10)



Pipe stop and holder of heavy duty construction for use in schools, institutions etc. All stainless steel components with rubber buffer. Floor portion is solid 25mm diameter x 280mm long stainless steel rod which is secured in cement. The rubber bumper plate is fixed to the door and hits the floor mounted pipe when used as a stop. The door is hooked to the floor portion with stainless steel hook when used as a holder. The door hook rotates out of the way when not in use.

Z1804 Stainless steel US32D £179.31 each (Box Qty 1)



Hook and eye gravity door holder. Main part fixes to restraint or wall, and small hook fits to outside of door. The main part rides up over the hook and holds the door open until released.

Z2108 Satin chrome plated brass 114.56 each (Box Qty 10)



RUBBER DOOR BUFFERS

Some of the products on this page (Z035 and Z115 Series) may be used in conjunction with the Zero door restraints shown on pages 218-220 depending on their size. Where suitable, they are normally fitted to the top or side of goal posts, hoop posts or single post door restrainers. When using tubular posts any door buffer should be mounted to flat sections of the restraint.

Black rubber doorstop. 35mm diameter, 25mm projection. Fixings not included.

Z035 35mm diameter x 25mm projection £0.60 each (Box Qty 20)



Black heavy duty rubber door buffer. With two fixing holes for heavy duty fixings. Fixings not included.

Z115.1A 150mm long x 50mm wide x 50mm projection £8.51 each (Box Qty 10)

Z115.1B 195mm long x 50mm wide x 50mm projection £8.72 each (Box Qty 10)



Black rubber top-hat buffer. 102x24mm base. 38mm overall projection. With two 7.5mm diameter fixing holes. Fixings not included.

Z115.2 102mm long x 24mm wide x 38mm projection £7.77 each (Box Qty 25)



Black moulded conical rubber buffer with steel washer insert. 65mm diameter at base, 75mm overall projection. With one 9.5mm diameter fixing hole. Fixings not included.

Z115.3 65mm diameter x 75mm projection £4.53 each (Box Qty 25)



Black moulded extended conical rubber buffer with steel washer insert. 65mm diameter at base, 100mm overall projection. With one 9.5mm diameter fixing hole. Fixings not included.

Z115.4 65mm diameter x 100mm projection £11.67 each (Box Qty 25)



Black very heavy duty rubber door buffer with two fixing holes reinforced with steel washers. Fixings not included. Please note these are our heaviest door buffers for extreme conditions and will require suitable fixings; for example the Z115.5E weighs 3.2kg.

Z115.5A 120mm long x 75mm wide x 85mm projection £7.82 each (Box Qty 10)

Z115.5B 190mm long x 80mm wide x 80mm projection £10.64 each (Box Qty 10)

Z115.5C 210mm long x 50mm wide x 50mm projection £8.30 each (Box Qty 10)

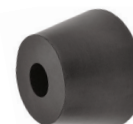
Z115.5D 250mm long x 80mm wide x 90mm projection £17.34 each (Box Qty 10)

Z115.5E 350mm long x 100mm wide x 100mm projection £25.19 each (Box Qty 10)



Black moulded conical rubber door buffer. 85mm at base, 52mm overall projection. With one 9.5mm diameter fixing hole. Fixings not included.

Z115.6 85mm diameter x 52mm projection £6.53 each (Box Qty 10)



Black moulded round rubber door buffer. 25mm or 63mm diameter. With one fixing hole. Fixings not included.

Z115.7A 25mm diameter x 13mm projection £1.62 each (Box Qty 25)

Z115.7B 63mm diameter x 25mm projection £4.03 each (Box Qty 25)



Black synthetic rubber round door buffer, 32mm, 35mm or 38mm diameter and 22mm, 38 or 26 projection (see below). With one fixing hole. Fixings not included.

Z115.8A 32mm diameter x 22mm projection £1.30 each (Box Qty 25)

Z115.8B 35mm diameter x 38mm projection £1.78 each (Box Qty 25)

Z115.8C 38mm diameter x 26mm projection £2.56 each (Box Qty 25)



Black synthetic rubber oval door buffer, 68mm long x 35mm wide and either 21mm or 38mm projection (see below). With two fixing holes. Fixings not included.

Z115.9A 68mm long x 35mm wide x 21mm projection £3.16 each (Box Qty 25)

Z115.9B 68mm long x 35mm wide x 38mm projection £3.47 each (Box Qty 25)



Black heavy duty rubber door buffer. With three fixing holes for heavy duty fixings. 246mm, 295mm or 394mm long (see below). 50mm wide x 50mm projection. Fixings not included.

Z115.10A 246mm long x 50mm wide x 50mm projection £10.76 each (Box Qty 10)

Z115.10B 295mm long x 50mm wide x 50mm projection £11.20 each (Box Qty 10)

Z115.10C 394mm long x 50mm wide x 50mm projection £12.24 each (Box Qty 10)



Black heavy duty rubber radiused door buffer. 125mm long, 40mm wide, 47mm projection. With two fixing holes for heavy duty fixings. Fixings not included.

Z115.11 125mm long x 40mm wide x 47mm projection £4.95 each (Box Qty 25)



HIGH ABUSE FLOOR STOPS

Security door stops designed for use in high vandalism or security areas. Moulded from black flame resistant, resilient material around a heavy-duty stud. Once grouted in quick setting cement they leave no exposed fasteners to be tampered with or removed. Ideal for high security areas, schools and institutions where conventional floor mounted door stops are vulnerable to abuse. The photographs below include a standard 35mm diameter rubber doorstop (not included) to convey the relative proportions of these high abuse floor stops.

Security floor door stop, black.

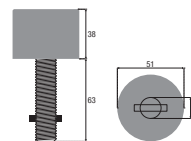
Flame resistant moulded rubber bumper.

No exposed fasteners.

51mm diameter x 38mm high bumper.

63mm long x 16mm diameter stud.

ZFS18S £16.63 each (Box Qty 10)



Security floor door stop, black.

Also ideal for concrete wall mounting applications.

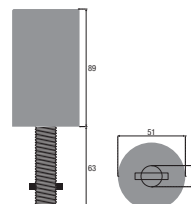
Flame resistant moulded rubber bumper.

No exposed fasteners.

51mm diameter x 89mm high bumper.

63mm long x 16mm diameter stud.

ZFS18L £22.17 each (Box Qty 10)



Heavy duty torpedo prison stop, black.

Flame resistant moulded rubber bumper.

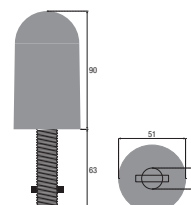
No exposed fasteners.

Suitable for concrete floor or wall mounting.

51mm diameter x 90mm high bumper.

63mm long x 16mm diameter mounting stud.

Z467 £44.13 each (Box Qty 10)



Extra heavy duty high abuse floor stop, black.

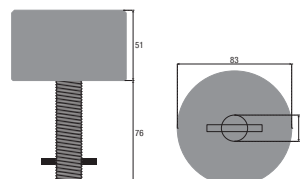
Flame resistant moulded rubber bumper.

No exposed fasteners.

83mm diameter x 51mm high bumper.

76mm long x 19mm diameter mounting stud.

ZEHD1803 £85.04 each (Box Qty 1)



High abuse floor stop, black.

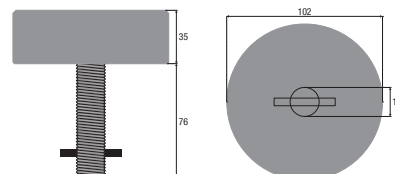
Flame resistant moulded rubber bumper.

No exposed fasteners.

102mm diameter x 35mm high bumper.

76mm long x 19mm diameter mounting stud.

ZH1803 £62.43 each (Box Qty 2)



High abuse floor stop and holder, black.

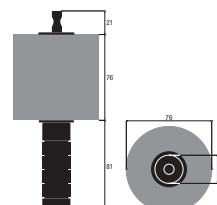
Supplied with stainless steel door portion and hook.

Flame resistant moulded rubber bumper.

76mm diameter x 76mm high bumper.

81mm long x 25mm diameter mounting stud.

Z1803HO £65.51 each (Box Qty 1)



Heavy duty door stop.

Wrought stainless steel and black rubber bumper.

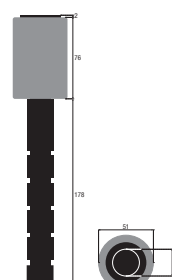
Ideal for use in high vandalism or security area.

No exposed fasteners.

51mm diameter x 76mm high bumper.

178mm long x 25mm diameter mounting bolt.

Z468 £114.11 each (Box Qty 1)



ZERO DOOR RESTRAINTS

These products are used on schools and public buildings, and are fitted externally on outward opening escape doors. They are set in position slightly offset from where the escape door will be when opened to 90 degrees, and can prevent the escape door from being pushed round further than this and damaging its hinges. When fitted with the Z440 door buffer or Z1402/582 birds beak holder (shown on page 215) they can be used to hold the door open at 90 degrees. These door restraints serve another purpose in that they prevent building escape doors being obstructed by bicycles and rubbish bins etc. Since they are fitted externally they are all manufactured from zinc plated mild steel, but all patterns are now available in stainless steel. Goal posts and hoops are available with mesh infill panels, please call for prices. References with "P" have pins at base, and with "F" have flange at base. Please note products supplied in zinc finish should be painted by the customer before supplying to site. Zinc finish is not a satisfactory final site finish as welds and joins will remain visible and may be considered unsightly. These products are not drilled as standard for buffers to allow on-site fixing in desired position.

SINGLE POST DOOR RESTRAINERS

Single post door holder. Fabricated from 40mm square section welded and finished with cap at top. Available in mild steel, zinc plated and black powder coated as standard or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with one 100mm square x 5mm ground fixing plate drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated and Black (/BLK) powder coated as standard, or Stainless Steel (/SS) to order.
Can be supplied powder coated to RAL numbers at extra cost.

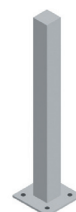
Height: 450mm overall (Z119F) or 600mm overall including 150mm for building in (Z112P).

REF	DESCRIPTION	ZINC	BLACK	ST STL*
Z112P.1	Pins to build, with Z440 black door buffer/holder	£ call	£ call	£ call
Z112P.2	Pins to build, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z112P.3	Pins to build, without buffer or beak holder	£ call	£ call	£ call
Z112P.4	Pins to build, with 35mm diameter black rubber stop only	£ call	£ call	£ call
Z119F.1	Base plates, with Z440 black door buffer/holder	£ call	£ call	£ call
Z119F.2	Base plates, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z119F.3	Base plates, without buffer or beak holder	£ call	£ call	£ call
Z119F.4	Base plates, with 35mm diameter black rubber stop only	£ call	£ call	£ call

Other heights available on request.



Z112P.3



Z119F.3

GOAL POST DOOR RESTRAINERS

Goal post door holder. Fabricated from 40mm square section welded and finished. Available in mild steel, zinc plated and black powder coated as standard or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm square x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated and Black (/BLK) powder coated as standard, or Stainless Steel (/SS) to order.
Can be supplied powder coated to RAL numbers at extra cost.

Width: 600mm overall.

Height: 850mm overall (Z111F) or 1150mm overall including 300mm for building in (Z111P).

REF	DESCRIPTION	ZINC	BLACK	ST STL*
Z111P.1	Pins to build, with Z440 black door buffer/holder	£ call	£ call	£ call
Z111P.2	Pins to build, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z111P.3	Pins to build, without buffer or beak holder	£ call	£ call	£ call
Z111F.1	Base plates, with Z440 black door buffer/holder	£ call	£ call	£ call
Z111F.2	Base plates, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z111F.3	Base plates, without buffer or beak holder	£ call	£ call	£ call

Other widths and heights available on request.



Z111P.3



Z111F.3

HOOP POST DOOR RESTRAINERS

Goal post door holder. Fabricated from 42mm diameter tubular section. These products are not drilled as standard for buffers to allow on-site fixing in desired position. Available in mild steel, zinc plated as standard, or black powder coated and stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm diameter x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated as standard, or Black (/BLK) powder coated and Stainless Steel (/SS) to order.
Can be supplied powder coated to RAL numbers at extra cost.

Width: 650mm overall.

Height: 850mm overall (Z124F) or 1150mm overall including 300mm for building in (Z124P).

REF	DESCRIPTION	ZINC	BLACK*	ST STL*
Z124P.1	Pins to build, with Z440 black door buffer/holder	£ call	£ call	£ call
Z124P.2	Pins to build, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z124P.3	Pins to build, without buffer or holder	£ call	£ call	£ call
Z124F.1	Base plates, with Z440 black door buffer/holder	£ call	£ call	£ call
Z124F.2	Base plates, with Z1402/582 black birds beak holder	£ call	£ call	£ call
Z124F.3	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z124P.3



Z124F.3

ZERO DOOR RESTRAINTS

NYLON SADDLE WASHER

Nylon washer. 40mm diameter x 14mm high black washer to provide flat surface for mounting door buffers on 42mm diameter tubular door restraints.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z125	Black nylon saddle washer, 40mm diameter x 14mm high	£4.03	each	50

HOOP POST DOOR RESTRAINERS WITH SMALL INFILL PANEL

Radiused tubular post door holder. Fabricated from 42mm diameter tubular section. With steel infill plate fixed at top, with 5mm hole drilled centrally for Z440 only. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm diameter x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Black (/BLK) powder coated as standard, or Zinc (/ZNC) plated and Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 400mm overall.

Height: 1250mm overall (Z135F) or 1550mm overall including 300mm for building in (Z135P).

REF	DESCRIPTION	ZINC*	BLACK	ST STL*
Z135P.1	Pins to build, with Z440 black door buffer/holder	£ call	£ call	£ call
Z135P.3	Pins to build, without buffer or holder	£ call	£ call	£ call
Z135F.1	Base plates, with Z440 black door buffer/holder	£ call	£ call	£ call
Z135F.3	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z135P.3



Z135F.3

HOOP POST DOOR RESTRAINERS WITH PERFORATED INFILL PANEL

Radiused tubular post door restraint. Fabricated from 42mm diameter tubular section. With perforated steel infill panel. NB. If using door buffers or holders these must be mounted on the infill panel as the frame is made from tubular section. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm diameter x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

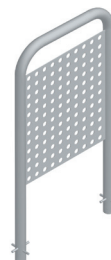
Finish: Zinc (/ZNC) plated, Black (/BLK) powder coated or Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 600mm overall.

Height: 900mm overall (Z145F) or 1200mm overall including 300mm for building in (Z145P).

REF	DESCRIPTION	ZINC*	BLACK*	ST STL*
Z145P.0	Pins to build, without buffer or holder	£ call	£ call	£ call
Z145F.0	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z145P.0



Z145F.0

HOOP POST DOOR RESTRAINERS WITH CANE BAR

Radiused tubular post door restraint. Fabricated from 42mm diameter tubular section. With cane bar at low level to assist partially sighted people. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm diameter x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Black (/BLK) powder coated as standard, or Zinc (/ZNC) plated and Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 600mm overall.

Height: 900mm overall (Z155F) or 1200mm overall including 300mm for building in (Z155P).

REF	DESCRIPTION	ZINC*	BLACK	ST STL*
Z155P.0	Pins to build, without buffer or holder	£ call	£ call	£ call
Z155F.0	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z155P.0



Z155F.0

ZERO CYCLE SUPPORTS & BARRIER RAILS

90 DEGREE CYCLE SUPPORT POSTS

Single 90 degree cycle support. Fabricated from 40mm square section welded and finished. One 100mm square x 5mm wall plate drilled with four 10mm holes. Available in mild steel, zinc plated and black powder coated as standard or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with one 100mm square x 5mm ground fixing plate drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated and Black (/BLK) powder coated as standard, or Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 800mm overall.

Height: 900mm overall (Z160F) or 1150mm overall including 250mm for building in (Z160P).

REF	DESCRIPTION	ZINC	BLACK	ST STL*
Z160P.0	Pins to build, without buffer or holder	£ call	£ call	£ call
Z160F.0	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z160P.0



Z160F.0

TUBULAR 90 DEGREE CYCLE SUPPORT POSTS

Single 90 degree cycle support. Fabricated from 42mm diameter tubular section. One 100mm diameter x 5mm wall plate drilled with four 10mm holes. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with one 100mm diameter x 5mm ground fixing plate drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated, Black (/BLK) powder coated or Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 800mm overall.

Height: 900mm overall (Z165F) or 1150mm overall including 250mm for building in (Z165P).

REF	DESCRIPTION	ZINC*	BLACK*	ST STL*
Z165P.0	Pins to build, without buffer or holder	£ call	£ call	£ call
Z165F.0	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z165P.0



Z165F.0

90 DEGREE BARRIER RAILS

Single 90 degree barrier rail with mid-level barrier. Fabricated from 42mm diameter tubular section. Two 100mm diameter x 5mm wall fixing plates each drilled with four 10mm holes. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with one 100mm diameter x 5mm ground fixing plate drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated, Black (/BLK) powder coated or Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 800mm overall.

Height: 900mm overall (Z170F) or 1150mm overall including 250mm for building in (Z170P).

REF	DESCRIPTION	ZINC*	BLACK*	ST STL*
Z170P.0*	Pins to build, without buffer or holder	£ call	£ call	£ call
Z170F.0*	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z170P.0



Z170F.0

HOOP BARRIERS RAILS

Hoop barrier rail. Manufactured from 42mm diameter zinc plated mild steel tubular section. Available in mild steel, zinc plated and black powder coated or stainless steel to special order. Available with 8mm diameter pins at base for letting into concrete or with two 100mm diameter x 5mm ground fixing plates each drilled with four 10mm holes.

Material: Zinc plated mild steel or stainless steel.

Finish: Zinc (/ZNC) plated, Black (/BLK) powder coated or Stainless Steel (/SS) to order. Can be supplied powder coated to RAL numbers at extra cost.

Width: 1400mm overall.

Height: 650mm overall (Z175F) or 900mm overall including 250mm for building in (Z175P).

REF	DESCRIPTION	ZINC*	BLACK*	ST STL*
Z175P.0*	Pins to build, without buffer or holder	£ call	£ call	£ call
Z175F.0*	Base plates, without buffer or holder	£ call	£ call	£ call

Other widths and heights available on request.



Z175P.0



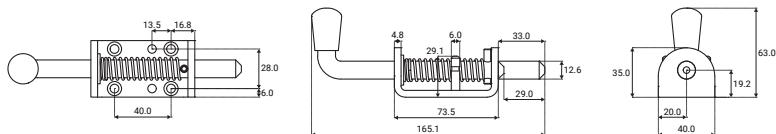
Z175F.0

SPRING BOLTS NEW

Spring bolts are a simple and effective bolting method, and are used in a variety of applications. Here we offer a medium duty range, in both steel and stainless steel, with base and peg retaining options.

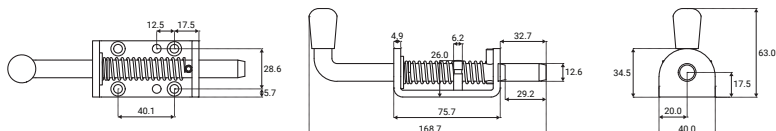
Medium duty spring bolt.
Zinc plated mild steel.
74x40mm plate.
165mm long x 12.6mm diameter shoot.
33mm projection.
Peg retaining.

ZSB01 £9.73 each



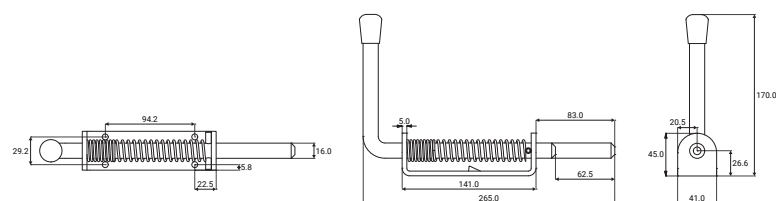
Medium duty spring bolt.
Grade 304 stainless steel.
76x40mm plate.
169mm long x 12.6mm diameter shoot.
33mm projection.
Peg retaining.

ZSB02 £24.87 each



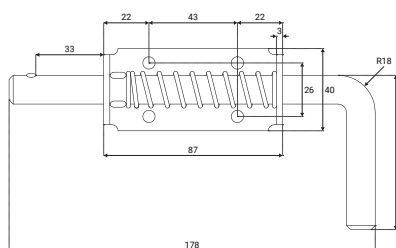
Medium duty spring bolt.
Zinc plated mild steel.
141x41mm plate.
265mm long x 16mm diameter shoot.
83mm projection.
Base retaining.

ZSB03 £9.47 each



Medium duty spring bolt.
Grade 316 brushed stainless steel.
87x40mm plate.
178mm long x 14mm diameter shoot.
55mm projection.
Base retaining.

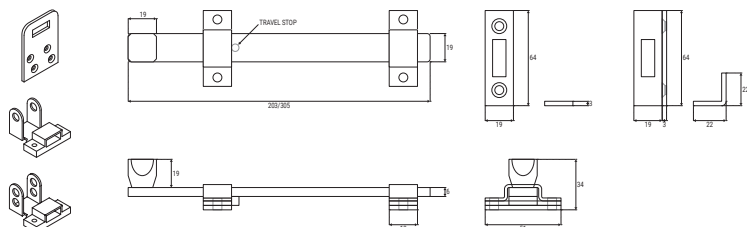
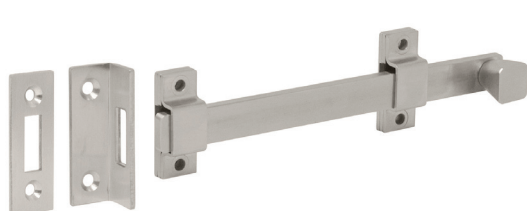
191515 £103.90 each



N1805 SERIES SLIDE BOLT NEW

The N1805 is a heavy duty 6mm thick solid stainless steel slide bolt. Manufactured from grade 304 stainless steel, it is available from stock 203mm and 305mm long, but can also be supplied custom lengths to special order.

Each bolt is supplied with two strike plates options to enable the bolt to be mounted at the bottom or top of the door, and there is also an optional rim strike to special order to enable mounting horizontally in the traditional lock area of the door. The N1805 can also be converted to a lockable bolt by ordering the special locking mounting brackets which enable the use of a padlock to lock the bolt. Stainless steel fixing screws are supplied as standard.



REF	DESCRIPTION	PRICE	UNIT
N1815	Complete 203mm long slide bolt with standard mounting brackets, strikes and screws. US32D.	£106.90	each
N1825	Complete 305mm long slide bolt with standard mounting brackets, strikes and screws. US32D.	£137.29	each
N1805-R*	Optional rim strike plate. US32D	£64.56	each
N1805-L*	Optional single locking bracket. US32D	£25.67	each
N1805-DL*	Optional double locking bracket. US32D	£44.00	each

ANSI CONCEALED MANUAL FLUSH BOLTS

These flush bolts are fitted top and bottom in the leading edge of the inactive leaf of a pair of metal doors. When both leaves are closed the flush bolts cannot be seen. With the inactive leaf bolted and secure, the active leaf can be locked and both leaves become secure. The flush bolts on this page are manufactured from brass with a satin chrome finish and are suitable for use on fire rated doors. They are manufactured to ANSI standards (American National Standards Institute) which means fixing positions do not vary and they can be fitted to pre-prepped metal doors. **Z003R/BULLET** zinc plated bullet head available separately £5.49 each.

Z003R ANSI STANDARD MANUAL FLUSH BOLT - 4 HOUR FIRE RATED

Material:	Brass, satin chrome US26D finish.
Body size:	Faceplate 25.4mm wide x 171.4mm high.
Strike plate size:	23.8mm x 57.1mm.
Guide size:	25.4mm x 50.8mm.
Rod:	305mm steel rod measured from centre of face to bolt end, retracted.
Throw:	19mm bolt throw, 38mm adjustable bolt head.
ANSI prep:	Fits ANSI A115 door and frame preparation.
Face:	Flat face only for use on square edged doors.
Fixings:	Supplied with rod, guide bracket, strike plate and 8 x No 8 x ¾ FH combo screws.
Testing:	Successfully tested to EN 12051:1999. Classification 3 3 - 0 1 3 2 . Copy of Exova Warringtonfire Report WIL 355513 available upon request.
Corrosion:	Now additionally successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.
Fire:	Included in successful 4 hour fire test to BS 476-22:1987. Copy of WFRC Report No C118425 available upon request.
Box quantity:	Packed 2 bolts per box with rods and fittings. Outer cartons of 50.
Z003R	£19.94 each bolt



Z006R STANDARD MANUAL FLUSH BOLT - WIDER BODY

Material:	Brass, satin chrome US26D finish.
Body size:	Faceplate 31.8mm wide x 171.4mm high. NB 6.4mm wider than Z003R ANSI prep.
Strike plate size:	23.8mm x 57.1mm.
Guide size:	25.4mm x 50.8mm.
Rod:	305mm steel rod measured from centre of face to bolt end, retracted.
Throw:	19mm bolt throw, 38mm adjustable bolt head.
Face:	Flat face only for use on square edged doors.
Fixings:	Supplied with rod, guide bracket, strike plate and 8 x No 8 x ¾ FH combo screws.
Box quantity:	Packed 2 bolts per box with rods and fittings. Outer cartons of 50.
Z006R	£30.87 each bolt



Z018R ANSI STANDARD MANUAL WINDSTORM FLUSH BOLT WITH STAINLESS STEEL ROD

Material:	Brass flush bolt body and stainless steel windstorm rod.
Finish:	Brass body, satin chrome US26D finish.
Body size:	Faceplate 25.4mm wide x 171.4mm high x 3.2mm deep.
Strike plate size:	23.8mm x 57.1mm.
Guide size:	25.4mm x 50.8mm.
Rod:	305mm stainless steel rod measured from centre of face to bolt end - retracted. 12.7mm diameter. Rod threaded at bottom to engage in bolt body and shaped conventionally at top to suit top guide.
Throw:	19mm bolt throw, 38mm adjustment on bolt head.
ANSI prep:	Meets ANSI A156.16, L04251.
UL:	UL Certified.
Hurricane testing:	Assembly approved for use in the State of Florida, including the High Velocity Hurricane Zone (HVHZ).
Face:	Flat face only for use on square edged doors.
Fixings:	Supplied with rod, guide bracket, strike plate and 8 x No 8-32 x ¼ flat head (FH) machine screws in stainless steel.
Fire:	US fire rating up to and including 3 hours.
Box quantity:	Packed 2 bolts per box with rods and fittings. Outer cartons of 10.
Z018R	£57.70 each bolt



See page 228 for spare components and floor sockets.

MAZAK SKELETON FLUSH BOLTS

These flush bolts are fitted top and bottom in the leading edge of the inactive leaf of a pair of metal doors. When both leaves are closed the flush bolts cannot be seen. With the inactive leaf bolted and secure, the active leaf can be locked and both leaves become secure. The flush bolts on this page are manufactured from mazak, and generally are not suitable for use on fire rated doors unless independently tested.

Material: Mazak zinc alloy.
 Finish: Architectural silver finish.
 Corrosion: Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.
 Rod: Steel rod with either steel tip (**/S**) for use with steel doors or nylon tip (**/N**) for use with aluminium doors. Rod only £2.57 each.
 Face: Flat face (**.1**) for use on square edged doors (usually steel) or radius face (**.2**) for use on radius edged doors (usually aluminium).
 Fixings: Supplied with rod, guide bracket and screws.

Concealed extension flush bolt.
Flat face.

265mm "P" rod with steel tip.
 Zinc alloy silver finish.
 Body size 146 x 23mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm diameter shoot.
 Box quantity 10, outer 100.

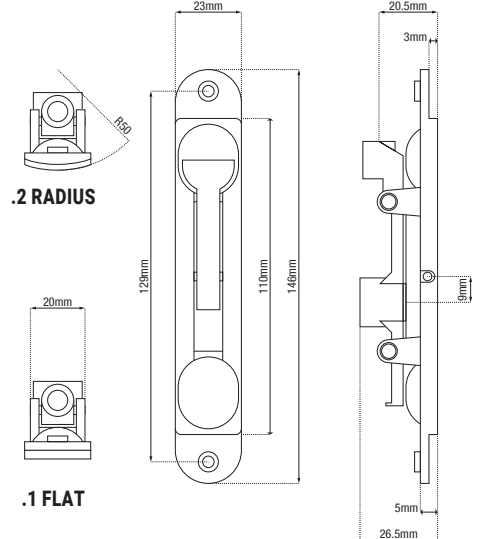
Z001.1/S £7.17 each



Concealed extension flush bolt.
Radius face.

265mm "P" rod with steel tip.
 Zinc alloy silver finish.
 Body size 146 x 23mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm diameter shoot.
 Box quantity 10, outer 100.

Z001.2/S £7.17 each



Concealed extension flush bolt.
Flat face.

265mm "O" rod with nylon tip.
 Zinc alloy silver finish.
 Body size 146 x 23mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm diameter shoot.
 Box quantity 10, outer 100.

Z001.1/N £7.17 each



Concealed extension flush bolt.
Radius face.

265mm "O" rod with nylon tip.
 Zinc alloy silver finish.
 Body size 146 x 23mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm diameter shoot.
 Box quantity 10, outer 100.

Z001.2/N £7.17 each



Concealed extension flush bolt.
Radius face.

250mm rod with nylon tip.
 Aluminium silver finish.
 Body size 150 x 25mm.
 16mm throw.
 11mm diameter shoot.
 Please call for drawing.
 Not the same rod as Z001 & Z008.
 Box quantity 10, outer 100.

Z009.2/N £7.38 each



.1 = Flat face

S = Steel tipped steel rod

.2 = Radius face

N = Nylon tipped steel rod

See page 228 for spare components and floor sockets.

Concealed extension flush bolt.
Flat face.

265mm "P" rod with steel tip.
 Zinc alloy silver finish.
 Body size 172 x 25mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm dia shoot.
 Box quantity 10, outer 100.

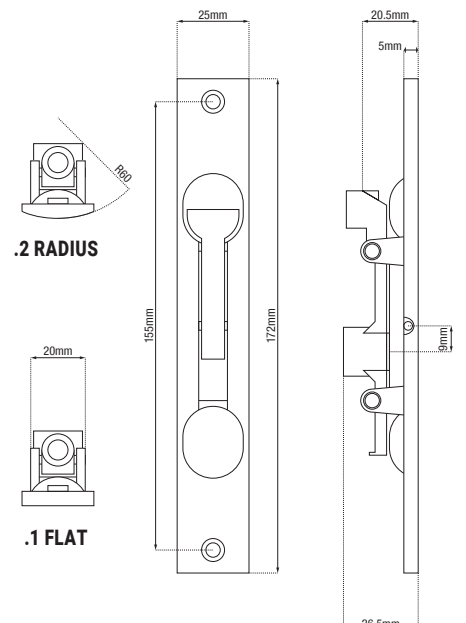
Z008.1/S £7.71 each



Concealed extension flush bolt.
Radius face.

265mm "P" rod with steel tip.
 Zinc alloy silver finish.
 Body size 172 x 25mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm dia shoot.
 Box quantity 10, outer 100.

Z008.2/S £7.71 each



Concealed extension flush bolt.
Flat face.

265mm "O" rod with nylon tip.
 Zinc alloy silver finish.
 Body size 172 x 25mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm dia shoot.
 Box quantity 10, outer 100.

Z008.1/N £7.71 each



Concealed extension flush bolt.
Radius face.

265mm "O" rod with nylon tip.
 Zinc alloy silver finish.
 Body size 172 x 25mm.
 5/16 BSW Thread.
 16mm throw.
 12.7mm dia shoot.
 Box quantity 10, outer 100.

Z008.2/N £7.71 each



ANSI AUTOMATIC FLUSH BOLTS - METAL DOORS

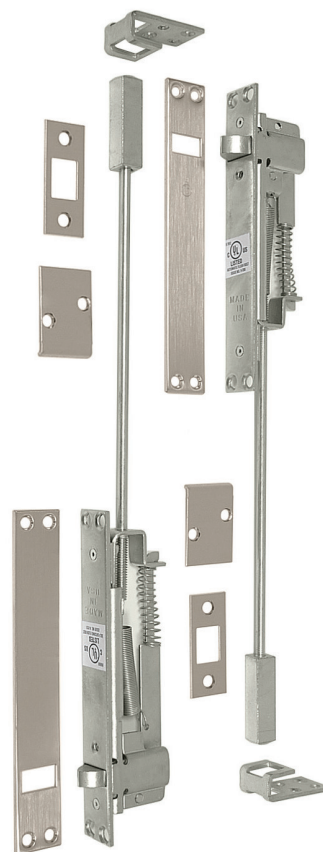
The Z004 (842) is UL Listed for 3 hours fire rating on metal doors measuring up to 1219mm wide x 2743mm high. It is used on the inactive leaf of a pair of metal doors, and fits the standard ANSI preparation. The units are supplied in pairs, consisting of a bolt for the top of the door and another bolt for the bottom of the door.

The unit is fully automatic and requires no power or electricity. When the active door is closed, the bolts project into the frame, securing the inactive leaf. When the active door is opened, the top and bottom bolts in the inactive leaf are automatically retracted for easy egress.

The patented non-handed cam triggering device is at the heart of this smooth easy-acting mechanism; a low closing force of only 5 lbs is required to drive a pair of bolts allowing door closing devices to perform at maximum efficiency. An override feature prevents damage to doors or frame, should the bolt heads and strikes be misaligned i.e. the bolts be prevented from penetrating either the top or bottom strikes. The bolts have a 19mm throw and are adjustable up to 38mm for unusual clearance or conditions. They also have a thermal lock that automatically locks the inactive door under high heat conditions due to fire.

It would be recommended to specify a door selector when using automatic flush bolts, even for plain meeting stiles.

Prep:	Fits standard ANSI prep for metal doors.
Handing:	Reversible, non-handed.
Finish:	Standard finish US32D satin stainless steel; other finishes available to special order.
Packing:	Packed as a set i.e. top bolt and bottom bolt.
Kit:	Comprises 2 x bolt housings, 2 x housing faceplates, 2 x rods with tips, 2 x frame & sill strike, 2 x reversible top & bottom bolt head guides, 2 x active door strikes, and all screws.
Fixing:	Supplied with installation template.
Dimensions:	The body measures 25mm wide x 172mm long x 51mm deep, and the rod is 355mm measured from the centre of the flush bolt body to the bolt tip.
Box Qty:	One set. 25 sets per outer.
Z004	£123.77 set (two bolts, top and bottom)



ANSI AUTOMATIC FLUSH BOLTS - TIMBER DOORS

The Z005 (942) is UL Listed for 1½ hours fire rating on UL Listed timber and composite doors measuring up to 1219mm wide x 2743mm high. It is used on the inactive leaf of a pair of timber doors, and fits the standard ANSI preparation. The units are supplied in pairs, consisting of a bolt for the top of the door and another bolt for the bottom of the door. The Z005 is similar to the Z004 above but is a different size and has sawdust covers to fit over the bolt housings. Whereas the Z004 has concealed extended rods, the rods on the Z005 are shorter and already fitted in place.

The unit is fully automatic and requires no power or electricity. When the active door is closed, the bolts project into the frame, securing the inactive leaf. When the active door is opened, the top and bottom bolts in the inactive leaf are automatically retracted for easy egress.

The patented non-handed cam triggering device is at the heart of this smooth easy-acting mechanism; a low closing force of only 5 lbs is required to drive a pair of bolts allowing door closing devices to perform at maximum efficiency. An override feature prevents damage to doors or frame, should the bolt heads and strikes be misaligned i.e. the bolts be prevented from penetrating either the top or bottom strikes. The bolts have a 19mm throw and are adjustable up to 38mm for unusual clearance or conditions. They also have a thermal lock that automatically locks the inactive door under high heat conditions due to fire.

It would be recommended to specify a door selector when using automatic flush bolts, even for plain meeting stiles.

Prep:	Fits standard ANSI prep for timber doors.
Handing:	Reversible, non-handed.
Finish:	Standard finish US32D satin stainless steel; other finishes available to special order.
Packing:	Packed as a set i.e. top bolt and bottom bolt.
Kit:	Comprises 2 x bolt housings with sawdust covers, 2 x housing faceplates, 2 x frame & sill strike, 2 x top & bottom bolt head guides, 2 x active door strikes, and all screws. NB. no separate rods in this kit.
Fixing:	Supplied with installation template.
Dimensions:	The body measures 25mm wide x 217mm long x 51mm deep.
Box Qty:	One set. 25 sets per outer.
Z005	£131.90 set (two bolts, top and bottom)



ANSI SELF-LATCHING FLUSH BOLTS - METAL DOORS

The Z016 (845) is UL Listed (3 hours) for use on the inactive leaf of a pair of metal doors, and fits the standard ANSI preparation. The units are supplied in pairs, consisting of a self-latching top bolt for the top of the door, and a standard automatic flush bolt for the bottom of the door (this bottom bolt is exactly the same as the bottom bolt in the Z004/842 opposite). The bolts are fully automatic and require no power or electricity.

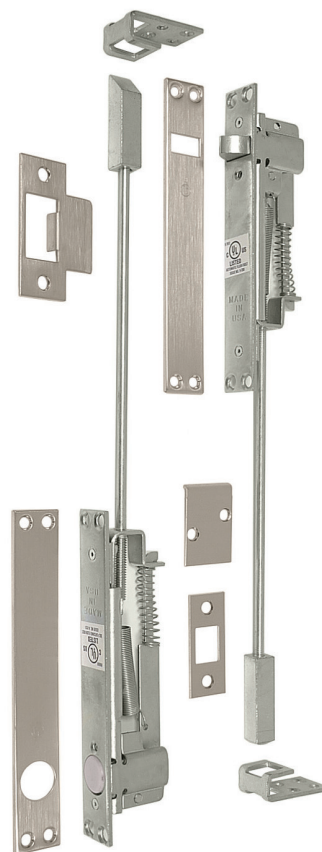
Both bolts are fitted in the first closing door (inactive leaf). At the top of the door the self-latching flush bolt has a bevel shaped bolt and will engage the curved lip strike in the head of the frame as the first closing door (inactive leaf) closes, locking it at the top. The bottom bolt, an automatic flush bolt, will engage the sill and frame strike only when the second closing door (active leaf) is closed. Therefore, when both door leaves are closed, both top and bottom bolts are engaged.

The bottom bolt will be released when the active door is opened. The top bolt will remain locked until the circular plunger is manually depressed on the face of the bolt, and then it will be possible to open the inactive leaf.

The patented non-handed free floating cam triggering device is at the heart of this smooth easy-acting mechanism; a low closing force of only 5 lbs of the active door is required to extend both top and bottom bolts. An override feature prevents damage to doors or frame, should the bolt heads and strikes be misaligned i.e. the bolts be prevented from penetrating either the top or bottom strikes. Bolts can be vertically adjusted by up to 38mm for unusual clearances, floor or head conditions.

It would be recommended to specify a door selector when using automatic flush bolts, even for plain meeting styles.

Prep:	Fits standard ANSI prep for metal doors.
Handing:	Reversible, non-handed. It is not necessary to reverse either top or bottom bolt.
Finish:	Standard finish US32D satin stainless steel; other finishes available to special order.
Packing:	Packed as a set i.e. top bolt and bottom bolt.
Kit:	Comprises 2 x bolt housings, 2 x housing faceplates, 2 x rods with tips, 2 x frame & sill strike, 2 x reversible top & bottom bolt head guides, 2 x active door strikes, and all screws.
Fixing:	Supplied with installation template.
Dimensions:	The body measures 25mm wide x 172mm long x 51mm deep, and the rod is 355mm measured from the centre of the flush bolt body to the bolt tip.
Box Qty:	One set. 25 sets per outer.
Z016	£140.20 set (two bolts, top and bottom)



ANSI SELF-LATCHING FLUSH BOLTS - TIMBER DOORS

The Z017 (945) is UL Listed (1½ hours) for use on the inactive leaf of a pair of UL Listed timber doors, and fits the standard ANSI preparation. The units are supplied in pairs, consisting of a self-latching top bolt for the top of the door, and a standard automatic flush bolt for the bottom of the door (this bottom bolt is exactly the same as the bottom bolt in the Z005/942 opposite). The bolts are fully automatic and require no power or electricity. They are very similar to the set for metal doors above, but the mechanisms have dust covers to keep out sawdust and there are no rods as the bolts are an integral part of the mechanisms.

Both bolts are fitted in the first closing door (inactive leaf). At the top of the door the self-latching flush bolt has a bevel shaped bolt and will engage the curved lip strike in the head of the frame as the first closing door (inactive leaf) closes, locking it at the top. The bottom bolt, an automatic flush bolt, will engage the sill and frame strike only when the second closing door (active leaf) is closed. Therefore, when both door leaves are closed, both top and bottom bolts are engaged.

The bottom bolt will be released when the active door is opened. The top bolt will remain locked until the circular plunger is manually depressed on the face of the bolt, and then it will be possible to open the inactive leaf.

The patented non-handed free floating cam triggering device is at the heart of this smooth easy-acting mechanism; a low closing force of only 5 lbs of the active door is required to extend both top and bottom bolts. An override feature prevents damage to doors or frame, should the bolt heads and strikes be misaligned i.e. the bolts be prevented from penetrating either the top or bottom strikes. Bolts can be vertically adjusted 13mm for unusual clearances, floor or head conditions.

It would be recommended to specify a door selector when using automatic flush bolts, even for plain meeting styles.

Prep:	Fits standard ANSI prep for timber doors.
Handing:	Reversible, non-handed. It is not necessary to reverse either top or bottom bolt.
Finish:	Standard finish US32D satin stainless steel; other finishes available to special order.
Packing:	Packed as a set i.e. top bolt and bottom bolt.
Kit:	Comprises 2 x bolt housings with sawdust covers, 2 x housing faceplates, 2 x frame & sill strike, 2 x top & bottom bolt head guides, 2 x active door strikes, and all screws. NB. no separate rods in this kit.
Fixing:	Supplied with installation template.
Dimensions:	The body measures 25mm wide x 217mm long x 51mm deep.
Box Qty:	One set. 25 sets per outer.
Z017	£151.42 set (two bolts, top and bottom)



AUTOMATIC FLUSH BOLTS - UNIVERSAL

The Z015 (862/962) is UL Listed for use on the inactive leaf of a pair of metal or timber doors, and is tested to over one million cycles. It can also be fitted to composite doors. The units are supplied in pairs, consisting of a bolt for the top of the door and another bolt for the bottom of the door. They are non-handed and it is not necessary to reverse either the top or bottom bolt.

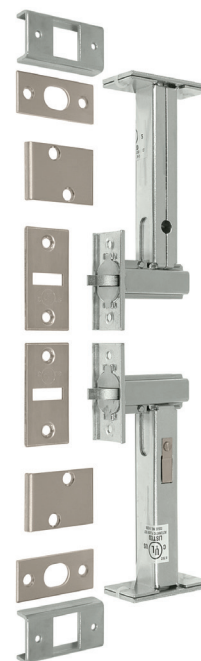
The units are fully automatic and require no power or electricity. They are installed in the top and bottom of the inactive leaf. Closing the active leaf automatically extends the top and bottom bolts 19mm into the head frame and sill strikes, locking the inactive leaf. Opening the active leaf automatically retracts the top and bottom bolts, releasing the inactive leaf.

The patented free floating cams with a swivel face require a maximum of 3 lbs closing force. An override feature prevents damage to doors or bolts, should the bolt heads be prevented from entering either the top or bottom strikes. The bolt head rods can be vertically adjusted by 13mm for unusual clearances.

To prepare the door for installation, only two 28.6mm diameter holes are required, one at the top of the door and one in the meeting stile. The top bolt is installed first, and then the edge bolt. The edge bolt's grooved channel will engage the top bolt's grooved bottom, mating them together inside the door.

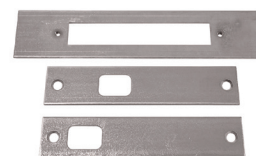
The major advantage on timber doors is that the small profile design eliminates cutting away the corner of the wood door adding stability and reducing the possibility of the veneers from splitting or delaminating.

Fire:	Assessed for use on steel based door assemblies in accordance with BS EN 1634-1:2014 for a duration up to 180 minutes. Copy of UL UK file NC26268 is available upon request.
Handing:	Reversible, non-handed.
Finish:	Standard finish US32D satin stainless steel; other finishes available to special order.
Packing:	Packed as a complete set i.e. top bolt and bottom bolt.
Kit:	Comprises 2 x bolts, 2 x housing faceplates, and all screws.
Fixing:	Supplied with installation template.
Box Qty:	One set. 40 sets per outer.
Z015	£134.59 set (two bolts, top and bottom)



The Z8900-Z universal automatic flush bolt retrofit frame prep kit offers a frame reinforcement plate and two reversible strike plates for both the 19mm and 38mm backsets. It eliminates the guesswork of which backset is specified and allows for easy retrofit. The surplus plate can be simply discarded. Plates are zinc plated mild steel.

Z8900-Z £15.02 set (Box Qty 25)



BOTTOM FIRE BOLTS

The ZBFB Bottom Fire Bolt eliminates the need for the bottom automatic flush bolt and dust proof strike. The ZBFB is installed horizontally in the inactive door, with a mating hole in the edge of the active door. It is usually fitted within 102-152mm of the bottom of the door. When subjected to 230°F (110°C) the ZBFB projects a spring-loaded bolt, locking the leaves together. This product contains no intumescent.

Fire rated for 3 hours on metal doors and 20 minutes on timber doors (US only).

The ZBFB can be purchased separately or as part of a kit with the 842, 942 and 862/962 single automatic flush bolt supplied for the top of the door and the ZBFB supplied for the bottom of the door.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
ZBFB	Bottom fire bolt only, US32D finish satin stainless steel	£73.61	each	1
Z840/8BFB	Top auto flush bolt and bottom fire bolt for metal doors	£131.93	set	1
Z860/960/BFB	Top auto flush bolt and bottom fire bolt for universal metal and wood doors	£150.90	set	1
Z940/9BFB	Top auto flush bolt and bottom fire bolt for wood doors	£148.73	set	1



BOLT SECURITY TAGS

These coloured plastic tags make it obvious that a panic bolt or fire extinguisher should not be operated except in the case of an emergency evacuation. They act as a deterrent, but also indicate when the door has been operated by unauthorised persons. SCT1 security tags are blue and are numbered consecutively. They are 260mm long x 6mm wide and have an 80N breaking strength and snap easily in event of emergency.

SCT1 £0.47 each (Box Qty 50)



BRASS LEVER ACTION FLUSH BOLTS

These lever action flush bolts are fitted top and bottom in the leading edge of the inactive leaf of a pair of timber doors. When both leaves are closed the flush bolts cannot be seen. With the inactive leaf bolted and secure, the active leaf can be locked and both leaves become secure. When ordering easy clean sockets and dust excluding sockets to fit in the floor please tell us which bolts they are being used with so we can ensure they will accommodate the bolt's shoot.

Lever action flush bolts for timber doors. Satin nickel plated brass. 15mm throw, 11mm diameter shoot.

Supplied complete with wood fixing screws.

REF	SIZE	CORNERS	THROW	BOLT DIA.	PRICE	UNIT	BOX QTY
Z007.1 SNP	203mm x 19mm	Square	15mm	11mm	£62.01	each	10
Z007.2 SNP	203mm x 25mm	Square	15mm	11mm	£75.01	each	10
Z007.3 SNP	305mm x 19mm	Square	15mm	11mm	£89.70	each	10
Z007.4 SNP	305mm x 25mm	Square	15mm	11mm	£100.53	each	10

Other sizes and finishes available to order.



STAINLESS STEEL LEVER ACTION FLUSH BOLTS

We are sometimes asked for stainless steel flush bolts but there is not a great choice available. It should be noted that the Z003R for steel doors on page 222 and the Z007 for timber doors above are both manufactured from brass - neither will rust and both have the finished appearance of stainless steel. However where real stainless steel is required, we offer four patterns as shown below, although it should be noted that small concealed working components of these are made of mild steel.

These stainless steel lever action flush bolts are fitted top and bottom in the leading edge of the inactive leaf of a pair of doors. When both leaves are closed the flush bolts cannot be seen. With the inactive leaf bolted and secure, the active leaf can be locked and both leaves become secure. When ordering easy clean sockets and dust excluding sockets to fit in the floor please tell us which bolts they are being used with so we can ensure they will accommodate the bolt's shoot.

Lever action flush bolts. Satin stainless steel. 12mm or 15mm throw as shown in table below.

Fixings not included.

REF	SIZE	CORNERS	THROW	BOLT DIA.	PRICE	UNIT	BOX QTY
KSB 25017 SS	250mm x 17mm	Square	15mm	7.5mm	£50.13	each	10
KSB 25020 SS	250mm x 20mm	Radius	15mm	10mm	£83.25	each	10
191719	250mm x 14mm	Square	12mm	8mm	£19.79	each	10
191718	300mm x 14mm	Square	12mm	8mm	£23.34	each	10



CYLINDER OPERATED FLUSH BOLTS

The Z1870 is a cylinder operated flush bolt for fitting to the inactive leaf of a pair of doors to prevent unauthorised operation. It should be fitted to both the top and the bottom of the inactive leaf. It is suitable for use on aluminium and steel doors. A 360° turn of the key throws or retracts the hardened hex-section bolt, and the key is only removable when the bolt is in a positively locked or unlocked position.

Backsets: 24.6mm backset (41.4mm deep lock case) and 28.6mm backset (45.2mm deep lock case).

Bolt: Hexagonal, hardened steel. 9.5mm (measured flat to flat). 17.5mm bolt throw.

Faceplates: Flat and radius supplied separately (see below).

Cylinder: Any standard 29.4mm mortice cylinder or thumb turn with suitable cam (order separately). See pages 146-147.

Case: 174.6mm high steel case with corrosion-resistant plating.

Rod length: 304.8mm from centre of cylinder to retracted bolt tip (±31.75mm adjustment possible).

Strike: 12.7mm diameter hole in metal threshold or header is suitable.

Forend: Steel forend with aluminium faceplate. See options below.

REF	DESCRIPTION	PRICE	UNIT	BOX QTY
Z1870-200*	Cylinder operated flush bolt, 24.6mm (31/32") backset, faceplate & cylinder not incl	£164.06	each	2
Z1870-300	Cylinder operated flush bolt, 28.6mm (1 1/8") backset, faceplate & cylinder not incl	£164.06	each	2
Z24-1870-000-628	Flat aluminium faceplate, SAA finish	£14.16	each	10
Z24-1870-100-628	Radius aluminium faceplate, SAA finish	£14.16	each	10



FLUSH BOLT SOCKETS & STRIKES

Z011 EASY CLEAN SOCKET

Easy clean socket. To suit shoot size 13mm diameter maximum. Includes fixing pack for wood or concrete. NOT compatible with Z003R, Z006R, Z004, Z005, Z015, Z016 and Z017. SNP finish.
£8.27 each (Box Qty 10, outer 100)



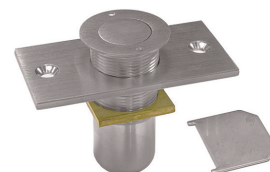
Z80 FLOOR DUST PROOF STRIKE

US design dust proof strike to suit shoot size 16mm maximum. Supplied with mounting plate 38mm x 76mm. Prevents dirt, dust and debris from clogging floor strikes. Compatible with Z003R, Z006R, Z004, Z005, Z015, Z016 and Z017. US32D satin stainless steel finish. Complete with screws and rawl plugs.
£13.71 each (Box Qty 1, outer 25)



Z82 UNIVERSAL DUST PROOF STRIKE

US design universal dust proof strike to suit shoot size 16mm maximum. The plate is both adjustable by means of spanner wrench and removable, making it versatile for carpet, threshold, or concrete applications. With removable faceplate for use with thresholds, and adjustable height for carpeted areas. Prevents dirt, dust and debris from clogging floor strikes. Compatible with Z003R, Z006R, Z004, Z005, Z015, Z016 and Z017. US26D satin chrome plated finish standard, other finishes to special order. Barrel 22mm diameter x 55mm depth. Faceplate 35mm x 73mm. Universal screw package included for all installations.
£14.52 each (Box Qty 1, outer 80)



Z013 DUST EXCLUDING SOCKET

Plunger dust excluding socket. To suit shoot size 13mm maximum. NOT compatible with Z003R, Z006R, Z004, Z005, Z015, Z016 and Z017. SCP finish.
£14.62 each (Box Qty 10, outer 50)



Z81 THRESHOLD DUST PROOF STRIKE

US design dust proof strike to suit shoot size 16mm maximum. Supplied without mounting plate, 32mm diameter flange. Prevents dirt, dust and debris from clogging floor strikes. Compatible with Z003R, Z006R, Z004, Z005, Z015, Z016 and Z017. US32D satin stainless steel finish. Complete with Tru Arc Ring to clamp underneath threshold.
£11.85 each (Box Qty 1, outer 25)



FLUSH BOLT SPARES

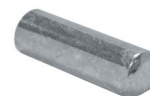
Z002 GUIDE BRACKET

Spare guide bracket and screws for Z001, Z008 and Z009 extension flush bolts.
£1.65 each



Z003R/BULLET BOLT HEAD

Zinc plated bullet head to suit Z003R flush bolt. 12.7mm diameter. Screws on to top of threaded rod. Unique shape to suit guide bracket.
£5.49 each



FLUSH BOLT EXTENDED & SPARE RODS

O.ROD

Nylon tipped rod for Z001 and Z008 flush bolts. 265mm long. Normally used on aluminium doors.
£2.57 each

P.ROD

Steel tipped rod for Z001 and Z008 flush bolts. 265mm long. Normally used on steel doors.
£2.57 each

Z003R/ROD

Zinc plated rod to suit Z003R and Z006R flush bolts. 272mm long, threaded both ends, plain in middle. Bullet bolt head not included.
£2.45 each



Z012 THREADED ROD TO SUIT Z003R

Threaded rod for use on tall doors. Suits Z003R and Z006R flush bolts only. Rod is fitted in place of rod supplied with flush bolt, and cut to size. Material: Zinc plated mild steel allthread UNC 1/4 x 20. Length: 914mm. Other lengths available to order.
£4.96 each



Z014 EXTENSION ROD TO SUIT Z001 & Z008

Threaded rod for use on tall doors. Suits Z001 and Z008 flush bolts only. Rod is welded to the end of the "P" or "O" rod supplied with the flush bolt. Please note rod tips cannot be removed so the extension rod is welded to the non-tip end of the rod. Material: Zinc plated mild steel allthread 5/16 BSW Thread. Length: 914mm. Other lengths available to order.
£8.92 each



UTILITY BLACK IRON GATE FITTINGS

Monkey tail bolt.
Square tensioned.
Black japanned.

Z20MT.1 457mm long £25.51 each (Box Qty 5)



Bow handle bolt.
Square tensioned.
Black japanned.

Z201BH.1 457mm long £25.79 each (Box Qty 5)
Z201BH.2 762mm long £65.89 each (Box Qty 5)
Z201BH.3 610mm long £27.33 each (Box Qty 5)



Z201BH.2 will be discontinued when stock is sold.

Strong tee hinge.
300mm long.
Black japanned.

Z120T £8.48 pair (Box Qty 10)



Hasp and staple.
Bright zinc plated.

ZHS617.1 115mm £2.61 each (Box Qty 5)
ZHS617.2 150mm £3.72 each (Box Qty 5)



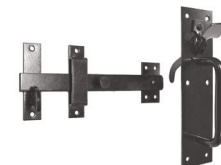
Cast iron cabin hook.
Black japanned.

ZCH37.1 152mm £5.27 each (Box Qty 10)



Suffolk latch with thumb piece.
Medium duty.
Black japanned.

Z20/4S £8.30 each (Box Qty 5)



Auto gate catch.
Medium duty multi-purpose.
Black japanned.

Z1932 £3.15 each (Box Qty 10)



Plain ring gate latch.
With straight latch bar, catch and keep.
150mm long.
Black japanned.

Z1138.6 £21.97 set (Box Qty 5)



Chain bolt.
200mm long.
Black japanned.

Z66 £19.68 each (Box Qty 10)



Garage door drop bolt.
300mm long.
Black japanned.

Z260 £21.63 each (Box Qty 5)



Foot operated bolt.
200mm long.
Black japanned.

Z68 £21.22 each (Box Qty 10)



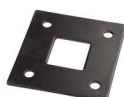
Brenton pattern padlock bolt.

Z1A.1 152mm electro galv £12.10 each (Box Qty 5)
Z1A.2 203mm electro galv £13.27 each (Box Qty 5)
Z2A.1 152mm black jap £6.09 each (Box Qty 5)
Z2A.2 203mm black jap £7.23 each (Box Qty 5)



Flat receiver plate.
For square bolt.
Black japanned.

Z0584 £3.02 each (Box Qty 10)



Cast receiver socket.
With 16mm square hole.
For concreting in.
Electro galvanised.

Z0582 £7.16 each (Box Qty 10)



PROQ GRADE 316 STAINLESS STEEL FITTINGS

All these fittings are manufactured from Grade 316 stainless steel and are supplied in brushed finish. They are suitable for use in external situations and damp environments where mild steel fittings would be prone to rusting. On the Continent they are used on houses and buildings in coastal locations. Please contact us for other similar products and different sizes. Please note that fixings are not supplied with these products. Please note these products are particularly suited for use with accoya wood. Grade 316 products have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

GRADE 316 HINGES

ENGLISH TEE HINGE

6mm knuckle.
Brushed stainless steel.
194415 150mm long
194120 200mm long
194125 250mm long
194130 300mm long

£38.20 each
£38.28 each
£41.12 each
£43.93 each



SHUTTER HINGE

Brushed stainless steel.
194420 65 x 207mm
190402 75 x 400mm

£36.60 each
£65.61 each



These items will be discontinued when stock is sold.

STRAP HINGE

30 x 3mm section.
100 x 55mm plate.
Brushed stainless steel.
194340 400mm long
194350 500mm long

£55.70 each
£59.81 each



BAND HINGE

40 x 5mm section.
16mm diameter pin.
Brushed stainless steel.
193143 300mm long
193145 500mm long
193147 700mm long
193240 1000mm long
193242 1200mm long

£43.98 each
£59.05 each
£71.55 each
£111.32 each
£135.91 each



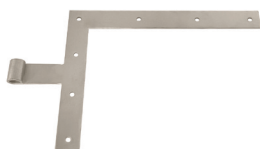
These items will be discontinued when stock is sold.

Also available 400, 600, 800, 1500mm to order. POA.

ANGLE STRAP HINGE

250 x 370mm.
35 x 4mm section.
14mm diameter pin (LH or RH).
Brushed stainless steel.
190514 LH
190518 RH

£121.00 each
£121.00 each



TEE STRAP HINGE

250 x 35mm upright.
14mm diameter pin (reversible).
Brushed stainless steel.
190614

£55.14 each



GRADE 316 HINGE PINS

HINGE PIN

Build in.
16mm diameter pin.
Brushed stainless steel.
190116

£30.50 each

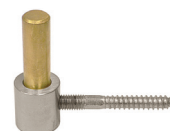


This item will be discontinued when stock is sold.

HINGE PIN

Drive fix.
16mm diameter pin.
Brushed stainless steel.
191416

£36.21 each



HINGE PIN

Vertical plate to screw.
Brushed stainless steel.
190131 (14mm pin), 100 x 40mm
190136 (16mm pin), 180 x 40mm

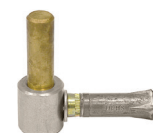
£40.23 each
£51.50 each



HINGE PIN

Rawlbolt fix M10.
16mm diameter pin.
Brushed stainless steel.
191426

£43.51 each



This item will be discontinued when stock is sold.

PROQ GRADE 316 STAINLESS STEEL FITTINGS

All these fittings are manufactured from Grade 316 stainless steel and are supplied in brushed finish. They are suitable for use in external situations and damp environments where mild steel fittings would be prone to rusting. On the Continent they are used on houses and buildings in coastal locations. Please contact us for other similar products and different sizes. Please note that fixings are not supplied with these products. Please note these products are particularly suited for use with accoya wood. Grade 316 products have been successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No WIL 392103 refers.

GRADE 316 BOLTS LOCKABLE WITH PADLOCK

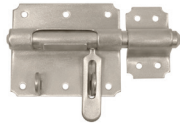
PADLOCK BOLT WITH KEEP

Brushed stainless steel.

194110 10mm diameter shoot £51.53 each
65mm W x 60mm H (staple 20mm wide).

194112 12mm diameter shoot £53.78 each
80mm W x 67mm H (staple 22mm wide).

194114 14mm diameter shoot £59.12 each
90mm W x 73mm H (staple 35mm wide).



HASP & STAPLE

171 x 38mm.

Brushed stainless steel.

193171

£49.71 each



GRADE 316 BOLTS

CRANKED HANDLE BOLT WITHOUT KEEP

90mm x 60mm plate.

14mm diameter shoot.

Brushed stainless steel.

194414 314mm long £55.84 each



LOOP HANDLE BOLT WITH KEEP

Length L = overall.

14mm diameter shoot.

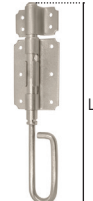
Brushed stainless steel.

192202 250mm long £51.46 each

192203 300mm long £53.29 each

192204 350mm long £54.51 each

192205 400mm long £74.85 each



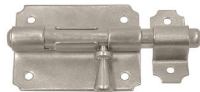
TOWER BOLT WITH KEEP

80 x 58mm plate.

12mm diameter shoot.

Brushed stainless steel.

191212 £67.84 each



CRANKED HANDLE BOLT WITH KEEP

90 x 60mm plate.

14mm diameter shoot.

43mm throw.

Brushed stainless steel.

191328

£46.22 each



This item will be discontinued when stock is sold.

AUTOMATIC GATE BOLT

270mm long.

30mm travel.

Brushed stainless steel (Grade 304).

194090 £74.52 each



SLIDING BOLT WITH STRIKE PLATE

300mm long overall.

100 x 50mm backplate with guide and strike plate
(also available 400mm to special order).

Ball bearing tensioned.

29mm projection bolt.

Brushed stainless steel (Grade 304).

191721

£82.29 each



GRADE 316 DOOR STOPS & HOLDERS

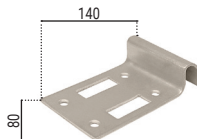
GATE STOP

Screw fix.

140 x 80mm.

Brushed stainless steel.

198214 £43.45 each



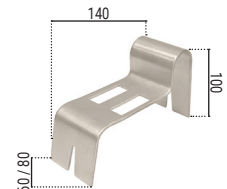
GATE STOP

Build in lugs.

Brushed stainless steel.

190186 140 x 60 x 100mm £35.74 each

190188 140 x 80 x 100mm £42.19 each



These items will be discontinued when stock is sold.

DOOR STOP AND HOLDER

Stainless steel finish.

191194 250mm high £84.74 each

191195 350mm high £114.36 each

191195 will be discontinued when stock is sold.



ELLEN FINPROTECT PLUS

- Now fire resistance tested to BS EN 1634-1:2014.
- Prevents children's fingers getting trapped in doors.
- Tested to BS 8613:2017.
- Three different profiles to suit hinged doors and double action doors on floorsprings.
- Available in white, black, brown, light grey, anthracite dark grey, blue, red and yellow.
- Totally concealed fixing and fast to fit with only 6 Torx screws per side.
- Strong design with five years guarantee, tested to 1 million cycles.
- Standard lengths 1980mm and 2500mm which can be easily cut to length on site.
- Can be temporarily removed if required to adjust hinges.
- One product suits both internal and external doors.
- Self-tapping screw pack available for metal doors.
- Self-adhesive tape pack available for glass, PVCu and composite doors.
- Dual hardness synthetic section slots into aluminium channels on door and frame.



Finprotect Plus finger protection strips are anti-trapping devices that protect children's fingers at the most dangerous side of the door: the hanging side. This is the side of the door where accidents can have serious consequences for thousands of children every year. It is so easy for little fingers to be trapped, crushed or pinched as a door closes. Fitting Finprotect Plus at the hanging side stops children's fingers getting trapped and prevents every parent's worst nightmare.

Finprotect Plus is ideal for use in play schools, nurseries, schools, supermarkets, family restaurants, fast food outlets, hotels, hospitals, doctors' surgeries, libraries, leisure clubs, day-care centres, elderly persons' homes... in fact any building likely to be frequented by children or elderly people. It is quick and easy to install and keeps functioning year after year.

The standard set ref #FP5090 is a two-part set that fits both sides of the leaf. It comprises a narrow section for the hinge knuckle side of the leaf (pull side), and a broad section for the other side of the leaf (push side), this can be used on most single swing door types. There is also a single swing two-part set available ref #FP90120 which incorporates the wider #FP120 broad profile. This can be used on aluminium, PVCu or steel single swing doors to give maximum opening angle.

The single broad set ref #FP90 protects only the push side of the leaf, whereas the double swing sets #FP9090 or #FP120120 protect both sides of the double swing leaf. The #FP9090 is to be used with offset pivots i.e. double action spring hinges, whereas the #FP120120 set can be used with double action floor springs. If required, it is possible to order only the narrow set ref #FP50 for the hinge knuckle side on duct doors etc. The dual hardness synthetic section slots into aluminium strips which have been fitted to the door and frame. This provides a totally concealed fixing.

COLOURS

Finprotect Plus is available in white and black, and six colours: brown, light grey, dark grey (anthracite), blue, red and yellow to co-ordinate with building colour schemes and door hardware. Please note that all RAL codes are indicative.

▲ Blue, red and yellow will be discontinued during the life of this catalogue, once existing stocks have depleted, therefore please contact us for accurate stock information.

SIZES

The standard length for Finprotect Plus is 1980mm requiring no cutting if being used on standard 2040mm doors, but it can be cut to size with a junior hacksaw. However 2500mm lengths are also available to order for taller doors. The aluminium profiles that are fitted to the door and frame are 15mm wide x 10mm high and are also easily cut to suit door and frame height.

OPENING ANGLES

Double swing aluminium doors and PVCu doors fitted with Finprotect are limited to 130° in either direction. However, the maximum opening angle for hinged timber and steel doors is between 130° and 180° depending on the type of hinge being used and the door thickness. If in doubt please refer to the measuring templates on our website which show the maximum "reach" of each profile; remember to print them off at a scale of 1:1 and then offer them up to the door and frame to establish which Finprotect profile is required for your door. For problem doors required to open to 180° we always suggest using the extra wide profile (#FP120).

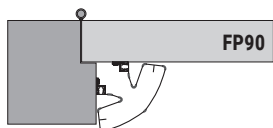
TESTING & GUARANTEE

- Fire:** FP5090 (fitted both sides of the door) is assessed for use on integrity only steel fire doorsets for 30 minutes to BS EN 1634-1:2014 following successful testing. Report 387313 issue 5 is available upon request.
- Durability:** Finprotect Plus has been successfully tested to British Standard BS 8613:2017 "Finger Protection Devices for Pedestrian Doors". BS 8613 was written to provide guidance on the best finger protection devices for doors. The range was tested to the more onerous Class 2 of the standard, which tests the ability of the device in preventing fingers entering the gap between the door and frame when force is used. Class 1 devices would not undergo this part of the testing. Report WIL406158 is available upon request.
- Corrosion:** Successfully tested to Grade 4 (240 hours neutral salt spray exposure) in accordance with BS EN 1670:2007 Building Hardware - Corrosion Resistance. Report No. WIL 392103 is available upon request.
- Other:** Finprotect Plus has also been tested to one million cycles at SHR (Holland) and is guaranteed for five years, subject to correct installation and fair wear and tear. It has been tested for safety, function and durability at LGA Nürnberg (Germany) and for fire retarding M1 at CSTB (France). TÜV certified.

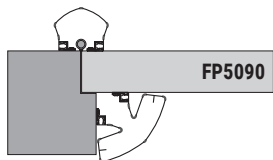


RAL 9010	RAL 9005	RAL 8014	RAL 9006	RAL 7016	RAL 5013 ▲	RAL 3002 ▲	RAL 1021 ▲

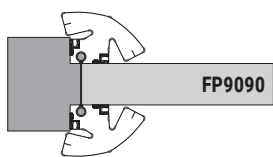
ELLEN FINPROTECT PLUS



SINGLE BROAD SET OLD REF ZF1	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP90-198 (1980mm long)	6	£44.25 each	£44.25 each	£59.84 each	£59.84 each	£59.84 each	£59.84 each	£59.84 each	£59.84 each
FP90-250 (2500mm long)	6	£51.14 each	£51.14 each	£70.45 each	£70.45 each	£70.45 each	-	-	-

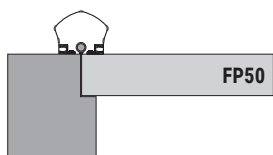


STANDARD TWO-PART SET OLD REF ZF2	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP5090-198 (1980mm long)	5	£65.03 set	£65.03 set	£88.01 set	£88.01 set	£88.01 set	£88.01 set	£88.01 set	£88.01 set
FP5090-250 (2500mm long)	5	£86.23 set	£86.23 set	£116.24 set	£116.24 set	£116.24 set	-	-	-

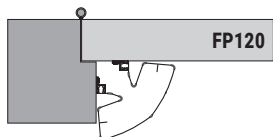


For double action spring hinges

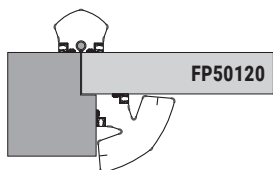
DOUBLE BROAD SET OLD REF ZF3	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP9090-198 (1980mm long)	3	£88.49 set	£88.49 set	£119.68 set	£119.68 set	£119.68 set	£119.68 set	£119.68 set	£119.68 set
FP9090-250 (2500mm long)	3	£102.28 set	£102.28 set	£140.90 set	£140.90 set	£140.90 set	-	-	-



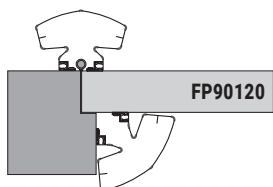
SINGLE NARROW SET OLD REF ZF5	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP50-198 (1980mm long)	5	£27.44 each	£27.44 each	£37.17 each	£37.17 each	£37.17 each	£37.17 each	£37.17 each	£37.17 each
FP50-250 (2500mm long)	5	£42.10 each	£42.10 each	£54.94 each	£54.94 each	£54.94 each	-	-	-



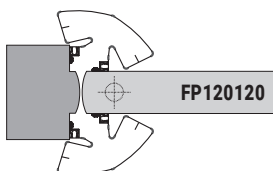
SINGLE EXTENDED SET OLD REF ZF6	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP120-198 (1980mm long)	2	£65.20 each	£65.20 each	£89.05 each	£89.05 each	£89.05 each	-	-	-
FP120-250 (2500mm long)	2	£75.78 each	£75.78 each	£103.94 each	£103.94 each	£103.94 each	-	-	-



EXTENDED TWO-PART SET OLD REF ZF14	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP50120-198 (1980mm long)	1	£92.64 set	£92.64 set	£126.23 set	£126.23 set	£126.23 set	-	-	-
FP50120-250 (2500mm long)	1	£117.89 set	£117.89 set	£158.88 set	£158.88 set	£158.88 set	-	-	-



EXTENDED TWO-PART SET OLD REF ZF7	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP90120-198 (1980mm long)	1	£121.88 set	£121.88 set	£166.46 set	£166.46 set	£166.46 set	-	-	-
FP90120-250 (2500mm long)	1	£141.65 set	£141.65 set	£194.28 set	£194.28 set	£194.28 set	-	-	-



For double action floor springs

DOUBLE EXTENDED SET OLD REF ZF8	BOX QTY	WHITE RAL9010	BLACK RAL9005	BROWN RAL8014	GREY RAL9006	ANTHRACITE RAL7016	BLUE* RAL5013	RED* RAL3002	YELLOW* RAL1021
FP120120-198 (1980mm long)	1	£130.40 set	£130.40 set	£178.10 set	£178.10 set	£178.10 set	-	-	-
FP120120-250 (2500mm long)	1	£151.57 set	£151.57 set	£207.87 set	£207.87 set	£207.87 set	-	-	-

PLEASE SEE PAGE 234 FOR ACCESSORIES.

ELLEN FINPROTECT PLUS

LINKING CHANNEL FOR FINPROTECT PLUS

There will always be doors with an extreme opening gap, which the standard Finprotect Plus strips cannot cover. This may be as a result of particularly thick doors or doors being hung on projecting hinges. In order to deal with this problem, Ellen has developed a special linking piece. The new Linking Channel for Finprotect Plus is an aluminium linking piece which links two standard Finprotect Plus strips together creating a broader Finprotect Plus strip that is able to cover extreme gaps.

The Finprotect Plus Linking Channel is not only easy to install, but also removable in order to adjust or lubricate the door hinges. Another benefit from this Linking Channel is that it's invisible due to the fact that the Linking Channel fits on the inside of the Finprotect Plus strips. This prevents children from removing the Linking Channel off the strips. Furthermore, it improves the appearance since the two separate Finprotect Plus strips look just like one large strip.

It is compatible with all three Finprotect Plus profiles; #FP50, #FP90 and #FP120. No fixings are required and it simply slides into place between the two Finprotect Plus profiles. The standard length is 2500mm but it may be cut down to 1980mm on site so it will suit either length of Finprotect Plus.

Article No 8057000250.

Linking channel for Finprotect Plus.

2500mm long aluminium strip.

ZF9 £30.28 each (Box Qty 1)



SELF-TAPPING SCREW PACK FOR METAL DOORS

Finprotect Plus is supplied with zinc plated Torx head wood screws as standard which are suitable for fixing the mounting strips to timber doors. However if the product is being fitted to metal doors we can supply Pozi head self-tapping screws. They are supplied in packs of 35.

Article No 850100906.

Self-tapping screw pack, Pozi head.

35 screws per pack.

ZF10 £4.91 pack (Box Qty 10)



SPARE SCREW PACK FOR TIMBER DOORS

Finprotect Plus is supplied with zinc plated Torx head security screws as standard which are suitable for fixing the mounting strips to timber doors. These are available as spares and are supplied in packs of 24.

Spare wood screw pack, Torx head.

24 screws per pack.

ZF11 £3.37 pack (Box Qty 10)



DRIVER BITS FOR TORX SCREWS

Torx T10 driver bit for fitting Finprotect Plus, 25mm long.

ZF15 £5.81 each (Box Qty 10)



SELF-ADHESIVE TAPE PACK FOR PVCU DOORS

If Finprotect Plus is being fitted to PVCu, composite or glass doors then customers may decide to use double-sided self-adhesive tape rather than screws to fit the aluminium channels to the door and frame. Please note self-adhesive tape should only be used internally.

Article No 805700000.

Self-adhesive tape pack.

10 metre roll.

ZF12 £24.96 roll (Box Qty 12)



MOUNTED SAMPLE BLOCK

For trade counter use and customer presentations we are able to offer a mounted sample block.

This shows #FP5090 white mounted on a small hinged door so it shows the true operation of Finprotect Plus.

Other loose samples in different colours are available upon request.

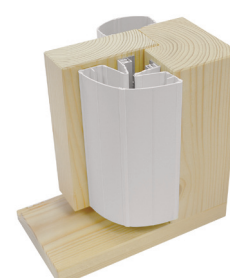
Article No Monsterdeur.

Mounted sample block.

Limited to one per customer.

White #FP5090.

ZF13 £FOC each (Box Qty 1)

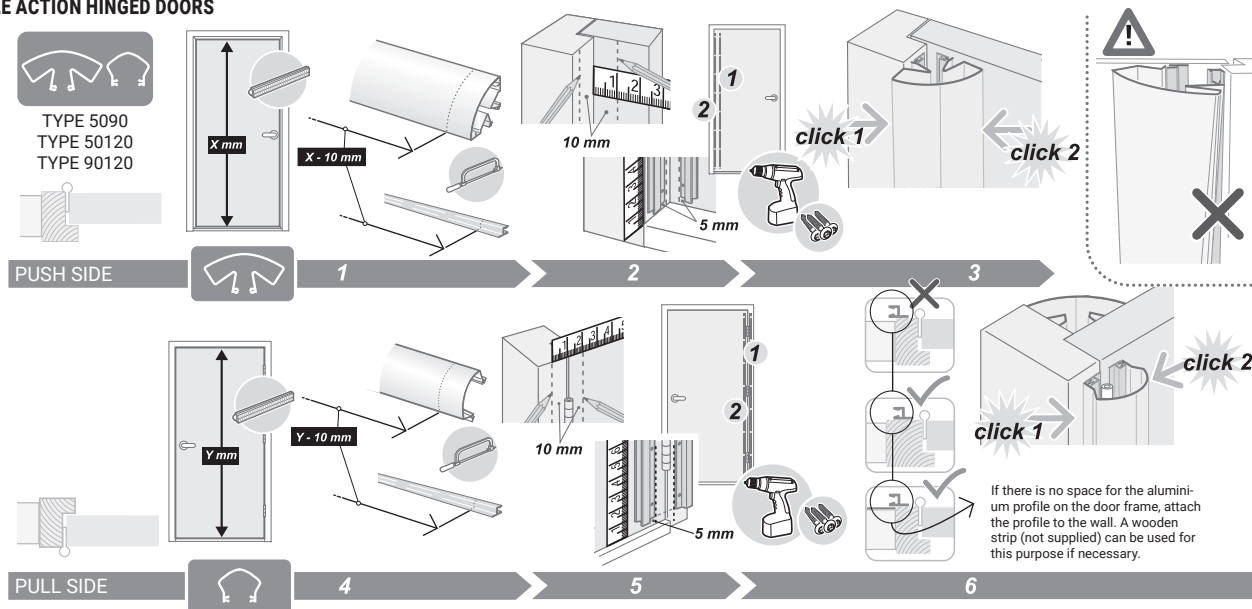


ELLEN FINPROTECT PLUS

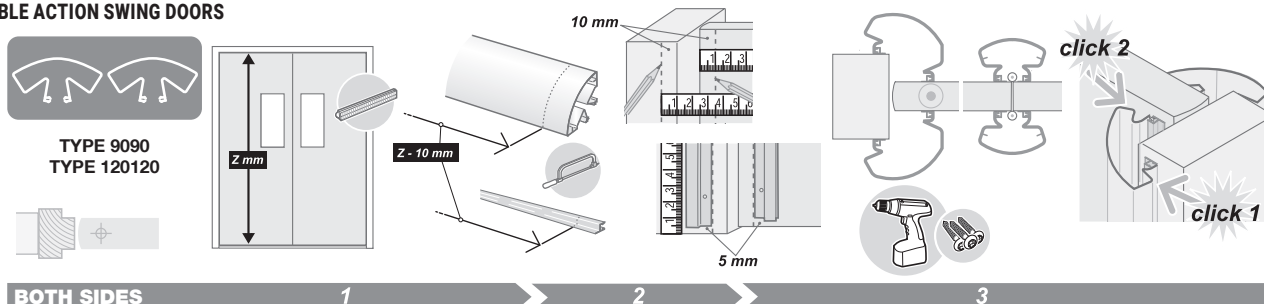
INSTALLATION

Full fixing instructions are supplied with every set as standard, but if further assistance is required there is an installation video available to view at zeroplus.co.uk/finprotect. Finprotect Plus fits simply on to all types of doors. Despite this we recommend checking your door details with the fitting instructions before you start fitting. Torx screws are included with every set to assist assembly, as well as fixing instructions. The simple "fin" design speeds up installation. Simply fit the aluminium profiles to the door and the frame and then click the synthetic profiles into the aluminium channels. Finprotect Plus can be trimmed to length using a junior hacksaw, although care should be taken not to snag the "hinge" when cutting. In most instances we recommend the use of doorstops to limit the opening angle and to avoid damaging the Finprotect Plus. To fit Finprotect Plus you will require competent handyman skills and the following tools: a tape measure, a pencil, a hammer, a Torx 10 piece, a hacksaw with 24 TPI minimum and a power driver. Also available to aid installation are self-tapping screws for fitting to aluminium or steel doors and self-adhesive tape for fitting to metal or PVCu doors. General fixing detail shown below but full installation instructions are supplied with every set.

SINGLE ACTION HINGED DOORS



DOUBLE ACTION SWING DOORS

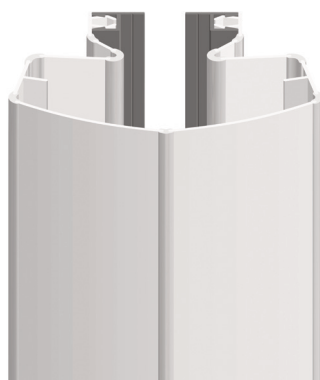


WHICH PROFILE TO USE?

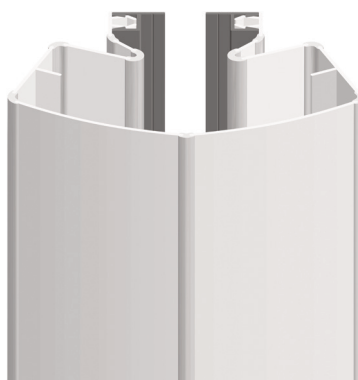
By using the Finprotect Plus "Measuring Template" you can easily check what type Finprotect Plus is best suited for your situation; #FP50, #FP90 or #FP120. Remember to print them off at a scale of 1:1 and then offer them up to the door and frame to establish which Finprotect profile is required for your door. For problem doors required to open to 180° we always suggest using the extra wide profile #FP120.

OTHER DOOR HARDWARE

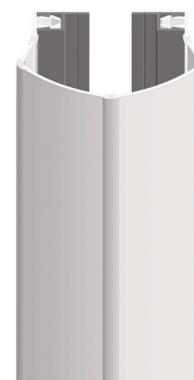
- Please remember to have kick plates cut shorter than usual, do not fit Finprotect Plus over the top of kick plates.
- Ensure that door closer arms and door stays do not interfere with Finprotect Plus.
- Fit a doorstop to limit opening angle as required.



FP90
Standard single broad profile



FP120
Extended single broad profile



FP50
Single narrow profile
(for hinge knuckle side only)

ZEROPLUS FABRIC FINGER ROLLER BLIND

Aluminium finger protection roller blind system to prevent fingers being trapped between the edge of the door and the door frame on the push side of the door. The tensioned blind pulls out of the frame fixed housing to span the gap as the door opens and automatically retracts as the door closes. The motion of the moving blind against fingers provides a warning for a hand to be moved away from a potential finger trapping incident. This design is preferred by automatic door manufacturers. However it is suitable for use on any single action hinged or pivoted door regardless of whether it is manually or power operated. It is recommended for use in commercial and public buildings, retail outlets, educational buildings, schools, nurseries and healthcare centres. It has been tested to over one million opening and closing cycles and is ideal for high traffic areas.

The standard colour for the fabric blind insert is black; it is not available in other colours. The blind insert has been available in the past in white plain PVC or black plain PVC (ZTSA-01/W.PVC and ZTSA-01/B.PVC); both now discontinued although stock may still be available.

In 2015 we improved this product and extended the width of the pull-out blind to be 250mm as standard (from the original 150mm) as this allows for use on thicker doors, or doors on projecting hinges or pivots. The blind comprises a nylon weaved mesh sandwiched between two pieces of black PVC. It is stronger than plain PVC and less likely than cloth to attract dust and dirt. The blind is spring-loaded and retracts into the housing when the door closes.

The blind housing is manufactured from aluminium and the standard stock finishes are satin anodised aluminium (SAA) and black anodised aluminium (BLK). The blind housing can be powder coated to match RAL numbers at extra cost and with extended lead-time. Minimum order quantities may apply for powder coating; please call for prices.

This is a product that should not be cut down on site. The standard housing length is 1950mm including the 5mm black plastic end caps at each end, but other shorter lengths are available to special order (no minimum size). For automatic doors it is important that the blind runs the full height of the door. It is not manufactured in sizes above 1950mm. Please note that the length of the foot which fits to the frame is 10mm less than the housing i.e. 1940mm and the blind is 25mm less than the housing i.e. 1925mm. When fitting the housing to the door, a gap of at least 10mm is required top and bottom.

Please note that the frame stop must be at least 40mm wide in order to fit the roller blind. This product is supplied with double sided tape to aid installation and screw fixings for final fixing. Screw heads on the foot which fits to the door are concealed from sight by a slide-in plastic cover strip. Installation is simple and full instructions are supplied. This product can be fixed to left or right hand doors and is suitable for internal or external use. It requires no maintenance other than a wipe down with a damp cloth for cleaning purposes.

PRODUCT	LENGTH	HOUSING FINISH	FABRIC WIDTH	FABRIC COLOUR	PRICE	UNIT
PUSH SIDE PROTECTION						
ZTSA-SAA.FABX	1950mm	Silver	250mm	Black	£194.94	each
ZTSA-BLK.FABX	1950mm	Black	250mm	Black	£218.08	each



ZTSA-SAA.FABX
Silver housing and foot
Black blind



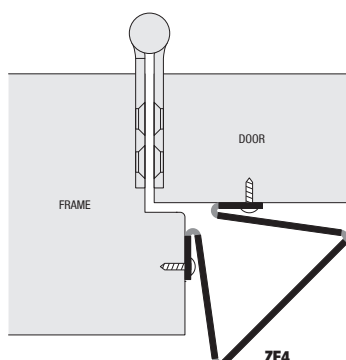
ZTSA-BLK.FABX
Black housing and foot
Black blind

ZEROPLUS FINGERSHIELD

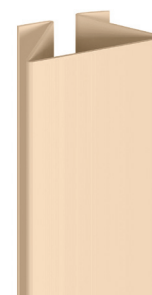
Fingershield is a simple anti-finger trapping device for retrofit work and DIY installation. Easy to fit and suits 95% of door types. Easily re-fixed where necessary for door maintenance etc. One size (1960mm) and one design only. Suitable for schools, nurseries, hospitals, leisure clubs, family restaurants, supermarkets, elderly persons homes, doctors' surgeries etc.

Standard colour white. Also available black, brown, beige, beech, grey, blue and anthracite. Stock size 1960mm.

PRODUCT	LENGTH	COLOURS	PRICE	UNIT
ZF4 WHT	1960mm	White	£50.12	each
ZF4 COL*	1960mm	Black, Brown, Beige, Beech, Grey, Blue, Anthracite	£54.08	each



ZF4 WHT

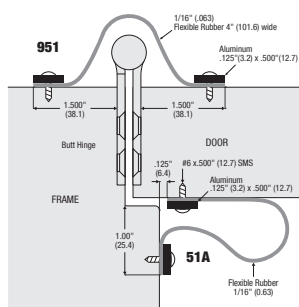


ZF4 COL (beige illustrated)

ZERO FINGER PROTECTION STRIPS

Hard-wearing maintenance-free hand and finger protection for public buildings, hospitals and the workplace. Each set comprises a 1.6mm thick flexible grey rubber safety blind (in three widths depending on door opening angle and the side of the door it is fitted to - 102mm, 152mm and 203mm), and two silver aluminium fixing strips each measuring 12.7mm wide x 3.2mm high which are screwed to the door and frame to hold the rubber in place. These products may be cut to size on site to suit door size.

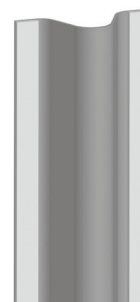
PRODUCT	WIDTH	LENGTH	COLOUR	OPENING ANGLE	PRICE	UNIT
PUSH SIDE PROTECTION (ALUMINIUM STRIPS OPPOSITE SIDES, CONCEALING ONE)						
51A-90	152mm	2134mm	Grey	90°	£101.92	each
51A-180	203mm	2134mm	Grey	180°	£106.93	each
HINGE KNUCKLE SIDE PROTECTION (ALUMINIUM STRIPS SAME SIDE, BOTH VISIBLE)						
951	102mm	2134mm	Grey	-	£119.21	each



51A-90



51A-180



951A

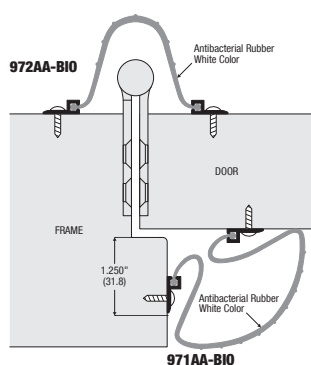
ZERO ANTI-BACTERIAL FINGER PROTECTION

Zero has developed **BIOWALL™** anti-bacterial rubber in response to rising hygienic standards and increasing demand for practical, anti-microbial applications in many facilities. Applications range from hospitals, nursing homes and doctors' offices, to veterinary facilities, to schools. Wherever minimising microbial exposures is crucial to occupant and visitor well-being, **BIOWALL™** can help maintain a sanitary work environment.

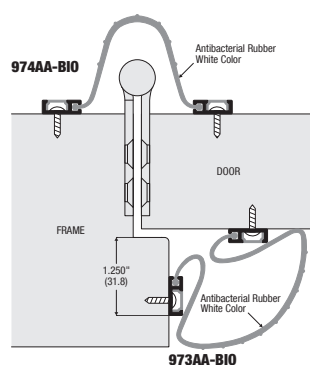
This revolutionary, non-toxic rubber inhibits and suppresses microbial growth and reproduction. It was formulated using revolutionary, non-toxic infusion technology, combined with proprietary extrusion technology, natural anti-microbial ingredients and breakthrough synthetics. It provides long-lasting defence against bacteria, fungi, moulds and other micro-organisms. Our technology provides natural resistance to abrasion, washing, and exposure to UV radiation and various chemicals. Zero **BIOWALL™** anti-bacterial rubber is designed to withstand surface wear and tear to maintain long-lasting anti-microbial protection.

It is available in two versions. 971AA-BIO and 972AA-BIO have visible fixings whereas 973AA-BIO and 974AA-BIO have concealed fixings. Standard size 2134mm.

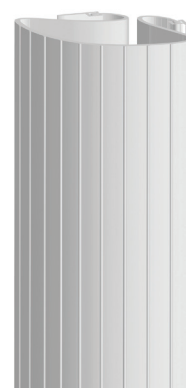
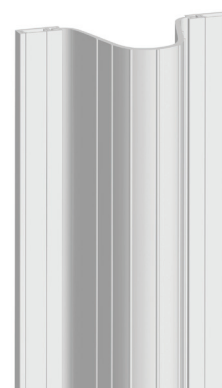
PRODUCT	LENGTH	COLOUR	DOOR SIDE	PRICE	UNIT
VISIBLE FIXING					
971AA-BIO*	2134mm	White	Push	£152.08	each
972AA-BIO*	2134mm	White	Pull	£129.00	each
CONCEALED FIXING					
973AA-BIO*	2134mm	White	Push	£178.95	each
974AA-BIO*	2134mm	White	Pull	£148.84	each



971AA-BIO



973AA-BIO

971AA-BIO
Visible fixing
Push side974AA-BIO
Concealed fixing
Pull side

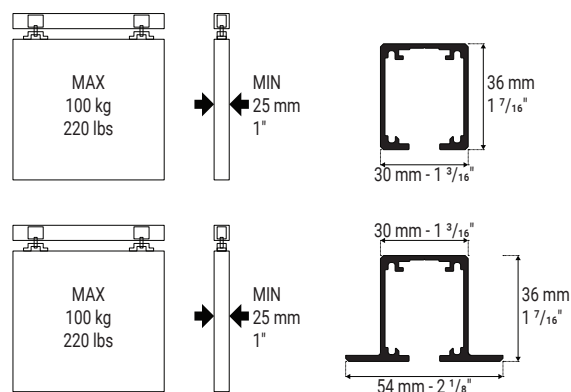
KLEIN LITE+ SOFT CLOSE SYSTEMS

STRAIGHT SLIDING SOFT CLOSE SYSTEM FOR DOORS AND ROOM DIVIDERS

Lite+: separate rooms with a single sliding timber door/panel, without any floor tracks. It offers great versatility and maximum architectural integration, while creating mobile partitions for flexible spaces.

The new Klein Lite+ is a straight sliding top hung system for doors / panels weighing up to 100kg. Featuring a silver anodised aluminium top track and offering superior smooth sliding thanks to its bearing system. Multiple top track fixing methods are available thanks to a wide range of standard brackets and the new full length aluminium Profile wall brackets.

- Can be ceiling or wall mounted (SUPERIOR or RETRAC), or a recessed installation with a hidden track (TOP).
- Fast and intuitive assembly for efficient implementation.
- Compact system for a minimalist design.
- Absence of floor tracks, leaving a clear passage area.
- Panels weighing up to 100 kg.
- Silver anodised aluminium tracks as standard. Black and Bronze anodised to special order, POA.
- Smooth, effortless sliding thanks to its bearing system.
- Smooth closing, with no slamming.
- Five-year KLEIN® warranty.
- Soft closing system: KSC, Klein Soft Closing. For doors/panels 750mm wide or over.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
LITE+ TO SUIT DOORS UP TO 100KG (220LBS), MINIMUM DOOR THICKNESS 25MM				
2203	Lite+ aluminium top track, anodised silver finish, drilled every 250mm, 3 metres long	£103.23	length	1
2213	Lite+ "Top" aluminium top track, anodised silver finish, drilled every 250mm, 3 metres long	£138.90	length	1
2200	Lite+ "SUPERIOR" door fittings pack for one 100kg sliding door (top plate) comprising 2 KSC soft close units, 2 adjustment bolts, 2 attachment brackets, 1 guide, screws and mounting instructions	£228.33	set	1
2210	Lite+ "RETRAC" door fittings pack for one 100kg sliding door (recessed) comprising 2 KSC soft close units, 2 adjustment bolts and blocks, 2 attachment brackets, 2 end caps, 1 guide, screws and mounting instructions	£301.02	set	1
2137	Lite+ Profile aluminium wall bracket, anodised silver finish, 6mm projection, drilled every 250mm, 3 metres long (optional for track side fixing)	£103.80	length	1
2147	Lite+ Profile aluminium wall bracket, anodised silver finish, 17mm projection, drilled every 250mm, 3 metres long (optional for track side fixing)	£157.50	length	1
3387	Lite+ wall bracket, 6mm projection, to be mounted every 500mm (optional for track side fixing)	£2.13	each	1
2135	Lite+ wall bracket, 17mm projection, to be mounted every 500mm (optional for track side fixing)	£6.77	each	1
2180	Lite+ aluminium end caps, silver anodised finish, (optional for use with 2203 top track)	£49.30	pair	1
2181	Lite+ aluminium end caps, silver anodised finish, (optional for use with 2203 top track and 2137 Profile wall bracket)	£49.30	pair	1
2182	Lite+ aluminium end caps, silver anodised finish, (optional for use with 2203 top track and 2147 Profile wall bracket)	£49.30	pair	1

KSC

Lite+ is supplied as standard with the KSC soft close system. This mechanism uses cutting-edge hydraulic dampers with multiple springs to give optimum performance. The KSC not only slows the door / panel down, but also closes it, all within the final 60mm of travel. This gives a perfect closing performance, without slamming or bounce back, on both sides of the door.



KSC - Lite+ soft close system
REF. 2210

KLEIN LITE+ SOFT CLOSE SYSTEMS



LITE+ SUPERIOR



LITE+ TOP



LITE+ RETRAC

LITE+ SUPERIOR

A traditional top track mounting method for doors / panels with pelmets. Various track fixing methods are available, all with optional end caps. See page 240.

LITE+ TOP

The unique Top track allows the Lite+ to be mounted above the ceiling and therefore be totally concealed. This gives a seamless, practically invisible, appearance. Can be fixed direct, or with the 2135 and 3387 brackets. See page 240.

LITE+ RETRAC

The Retrac fittings pack brings the door within 4mm of the standard top track, meaning no pelmet is necessary, and creating improved aesthetics. Various track fixing methods are available, all with optional end caps. See page 240.

TRACKS & FITTING PACKS

2203

Aluminium top track, 3 metres long.

- For "SUPERIOR" and "RETRAC" installations.
- Can be mounted straight to the ceiling, or side fixed to a wall.
- Side fixing wall brackets; 2137, 2147, 2135 and 3387 available.
- Silver anodised.
- Other lengths available to special order.



2213

Aluminium top track, 3 metres long.

- For "TOP" installations.
- To be mounted above the ceiling.
- Side fixing wall brackets; 2135 and 3387 available.
- Silver anodised.
- Other lengths available to special order.



2200

"SUPERIOR" door fittings pack.

- To suit one 100kg door.
- For use with 2203 track.
- KSC soft closing as standard.
- All fixings, and instructions included.



2210

"RETRAC" door fittings pack.

- To suit one 100kg door.
- For use with 2203 and 2213 tracks.
- KSC soft closing as standard.
- All fixings, and instructions included.



KLEIN LITE+ SOFT CLOSE SYSTEMS

ACCESSORIES

2137

Aluminium Profile wall bracket, 3 metres long.

- To suit 2203 top track.
- Seamless fixing method improving aesthetics.
- 6mm projection.
- Silver anodised finish.



2147

Aluminium Profile wall bracket, 3 metres long.

- To suit 2203 top track.
- Seamless fixing method improving aesthetics.
- 17mm projection.
- Silver anodised finish.



3387

Standard wall bracket.

- To suit 2203 and 2213 top tracks.
- Traditional top track fixing method.
- 6mm projection.
- Recommended to be mounted every 500mm.



2135

Standard wall bracket.

- To suit 2203 and 2213 top tracks.
- Traditional top track fixing method.
- 17mm projection.
- Recommended to be mounted every 500mm.



2180

Standard track end cap.

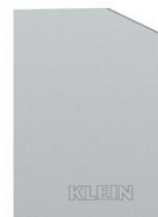
- Silver anodised aluminium.
- To suit 2203 top track.
- Supplied in pairs.



2181

Profile track end cap.

- Silver anodised aluminium.
- To suit 2203 top track and 2134 Profile wall bracket.
- Supplied in pairs.



2182

Profile track end cap.

- Silver anodised aluminium.
- To suit 2203 top track and 2147 Profile wall bracket.
- Supplied in pairs.



KLEIN K.20 / K.30 STRAIGHT SLIDING SYSTEMS

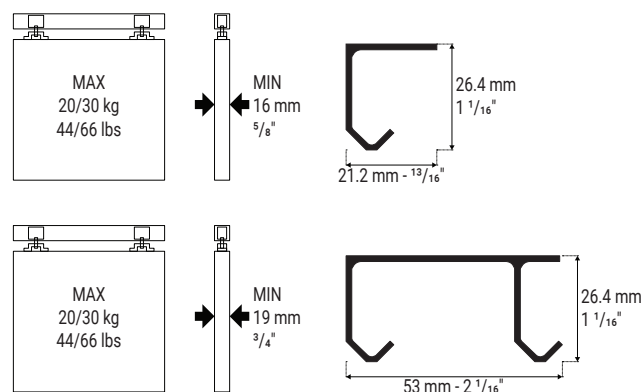
STRAIGHT SLIDING DOOR GEAR FOR WARDROBES AND CUPBOARDS

By-passing sliding wardrobe door system, with aluminium double-track and injection-moulded ball bearing rollers mounted on height adjustable steel plates, allowing easy door alignment with the frame. Guides are routed into the door bottom, out of sight.

Hanger wheels can be reversed for thicker doors up to 35 mm.

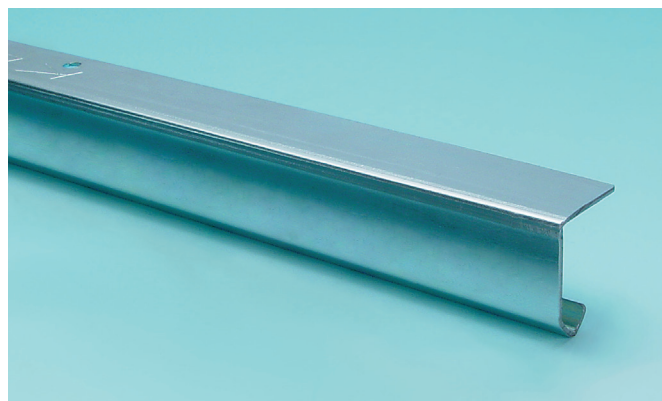
Maximum leaf weight: 20 kg (K.20) or 30 kg (K.30).

Minimum door thickness: 16 mm (single track) and 19 mm (double track).

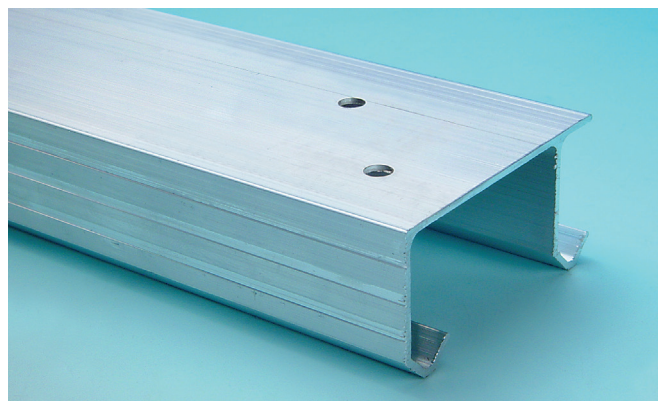


REF	DESCRIPTION	PRICE	UNIT	BOX QTY
K.20 TO SUIT WARDROBE AND CUPBOARD DOORS UP TO 20KG (44LBS), MINIMUM DOOR THICKNESS 16MM				
3119	K.20/K.30 single steel track, neocrom finish, J shaped, drilled every 250mm, 3 metres long	£24.95	length	1
OR 3066	K.20/K.30 double aluminium track, mill finish, J shaped, drilled every 250mm, 3 metres long	£70.29	length	1
3106	K.20 door fittings pack for one 20kg door comprising 2 rollers, 1 bottom guide and screws	£9.18	pack	10
5281	K.20/K.30 brake stops (optional)	£1.45	each	50
K.30 TO SUIT WARDROBE AND CUPBOARD DOORS UP TO 30KG (66LBS), MINIMUM DOOR THICKNESS 19MM				
3119	K.20/K.30 single steel track, neocrom finish, J shaped, drilled every 250mm, 3 metres long	£24.95	length	1
OR 3066	K.20/K.30 double aluminium track, mill finish, J shaped, drilled every 250mm, 3 metres long	£70.29	length	1
3103	K.30 door fittings pack for one 30kg door comprising 2 rollers, 1 bottom guide and screws	£12.43	pack	10
5281	K.20/K.30 brake stops (optional)	£1.45	each	50

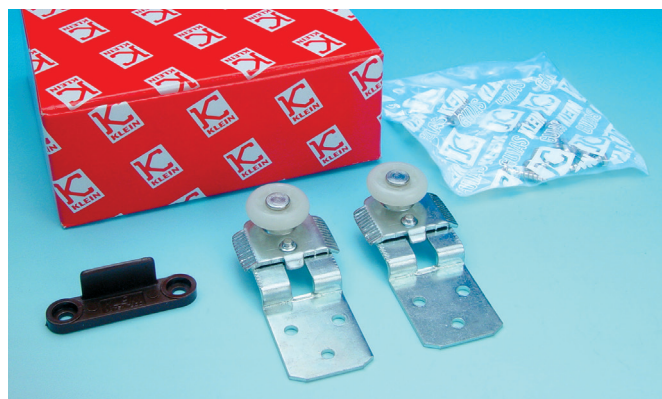
OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



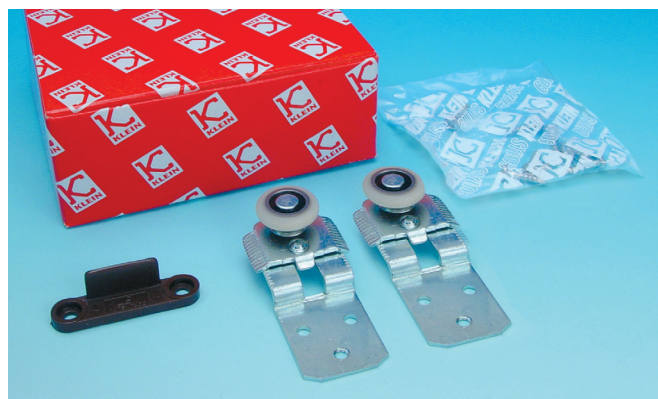
Steel top track - drilled every 25 cm - finished "Neocrom Klein"
REF. 3119



Double top track - drilled every 25 cm - mill finish aluminium
REF. 3066



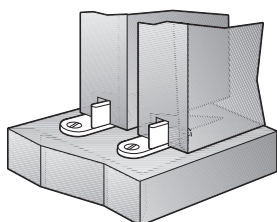
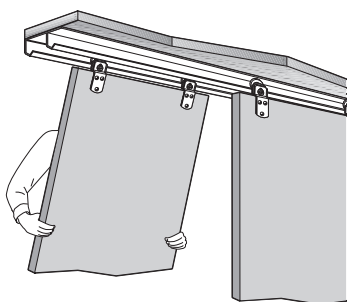
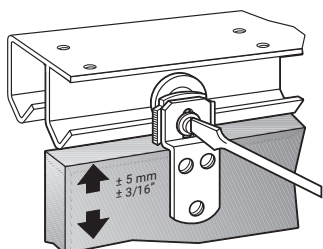
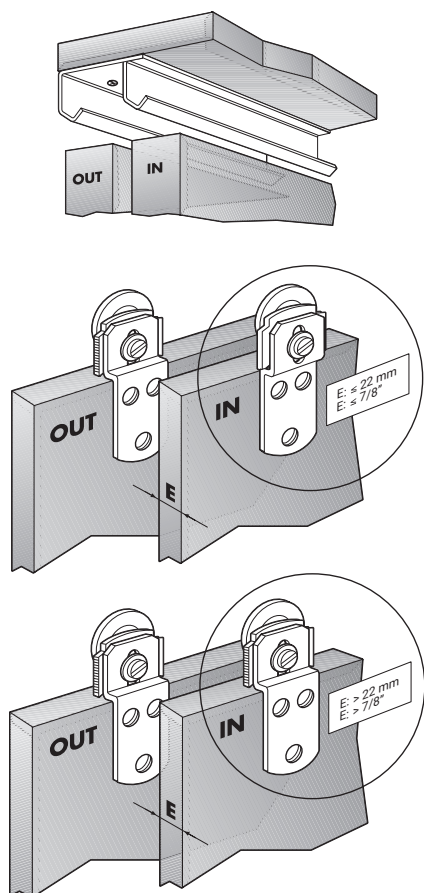
Set of accessories K.20 for 1 leaf up to 20 kg
REF. 3106



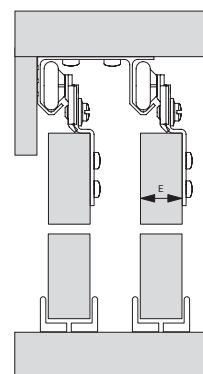
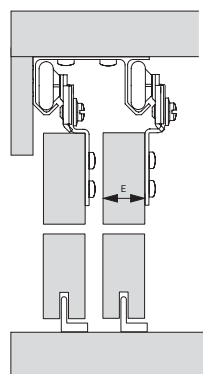
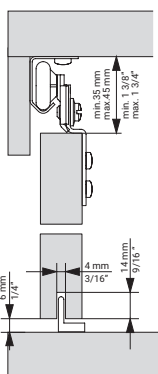
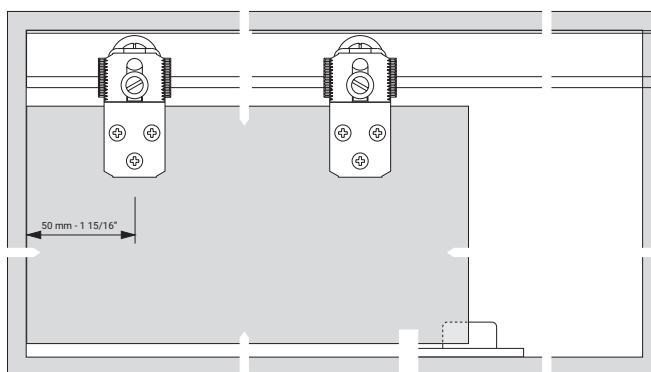
Set of accessories K.30 for 1 leaf up to 30 kg
REF. 3103

KLEIN K.20 / K.30 STRAIGHT SLIDING SYSTEMS

K.20 - K.30



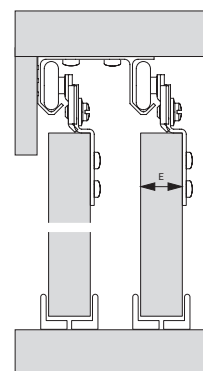
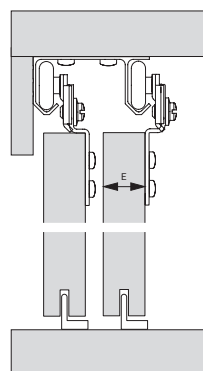
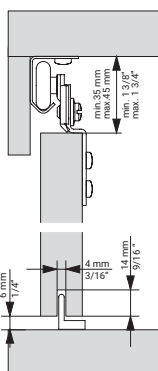
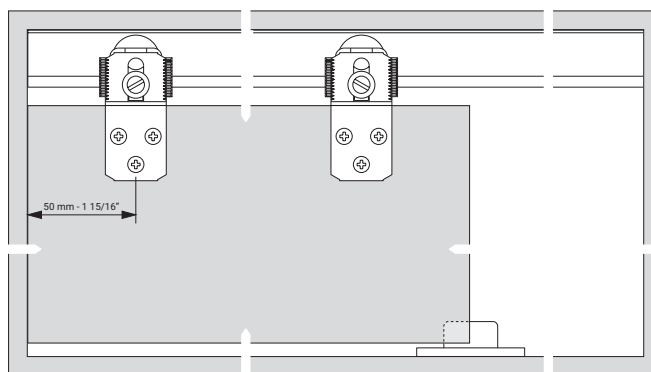
K.20



< less than
≤ less than or equal to

> greater than
≥ greater than or equal to

K.30



E ≤ 22 mm E ≤ 7/8"

E > 22 mm E > 7/8"

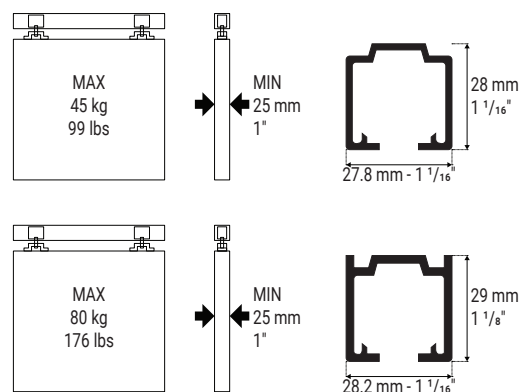
KLEIN NK.45 / NK.80 STRAIGHT SLIDING SYSTEMS

STRAIGHT SLIDING DOOR GEAR FOR CUPBOARDS, ROOM DIVIDERS AND DOORS

Systems for straight sliding wood or metal doors weighing up to 45 and 80 kg. Ball bearing rollers are pre-mounted in the track, and pendant bolts and plates are pre-mounted to the top of the door, making door fitting faster and easier. The in-track stop holds the door closed against seals without the need for a lock.

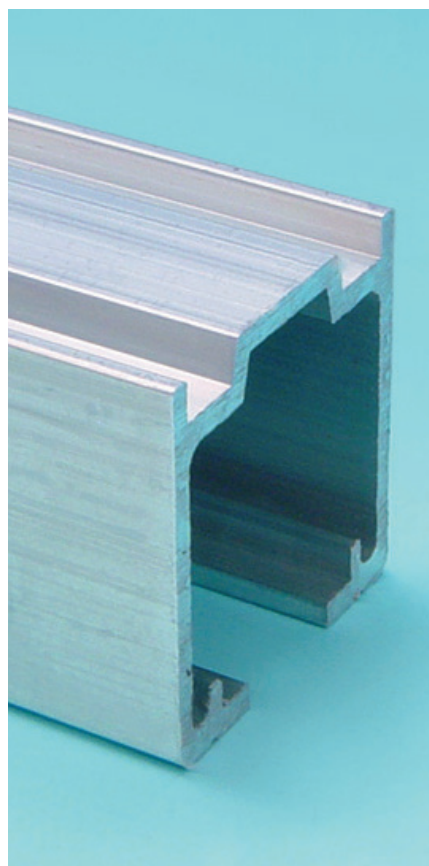
Maximum leaf weight: 45 kg (NK.45) or 80 kg (NK.80).

Minimum door thickness: 25 mm.

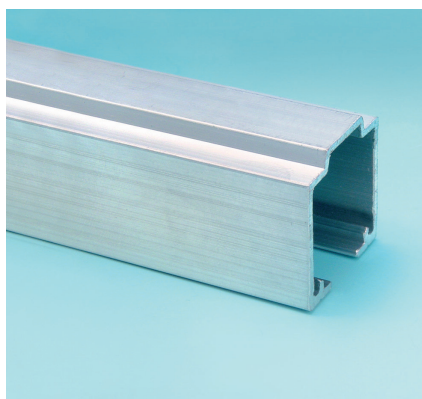


REF	DESCRIPTION	PRICE	UNIT	BOX QTY
NK.45 TO SUIT DOORS UP TO 45KG (99LBS), MINIMUM DOOR THICKNESS 25MM				
2019	NK.45/NK.50 aluminium box track - mill finish, drilled every 250mm, 3 metres long	£55.11	length	1
0857	NK.45 door fittings pack for one 45kg sliding door (single wheels) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws & mounting instructions	£29.51	pack	10
3386	NK track wall bracket, to be mounted every 500mm (optional for track side fixing)	£1.81	each	100
NK.80 TO SUIT DOORS UP TO 80KG (176LBS), MINIMUM DOOR THICKNESS 25MM				
2013	NK.80 aluminium box track - mill finish, drilled every 250mm, 3 metres long	£69.84	length	1
0858	NK.80 door fittings pack for one 80kg sliding door (double wheels) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws & mounting instructions	£47.89	pack	10
3386	NK track wall bracket, to be mounted every 500mm (optional for track side fixing)	£1.81	each	100
3674	Bottom roller guide, zinc plate, nylon rubber (optional)	£4.03	each	5

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



Mill finish aluminium track - drilled every 25 cm (NK.80)
REF. 2013



Mill finish aluminium track - drilled every 25 cm (NK.45)
REF. 2019



Wall bracket
REF. 3386



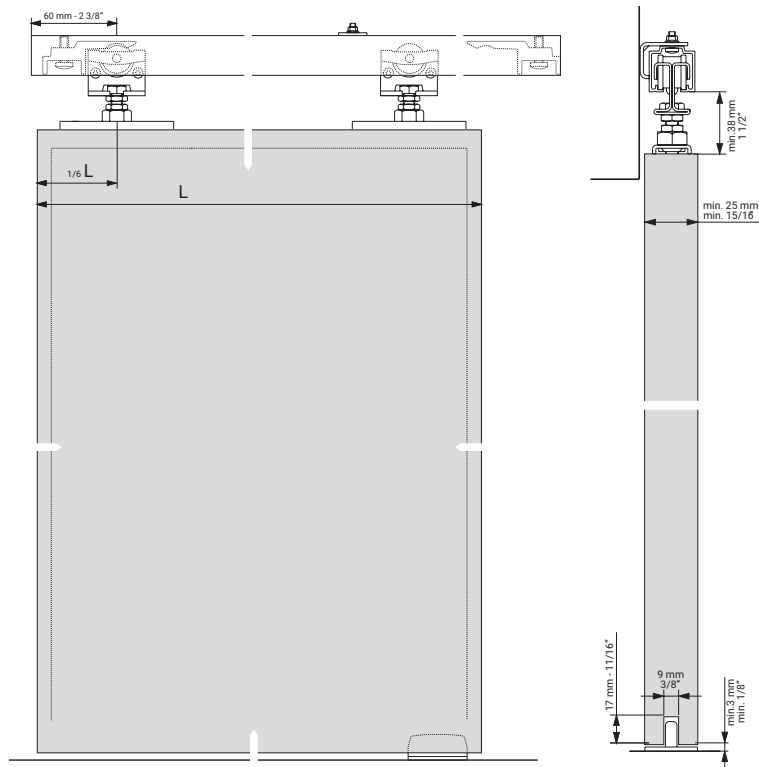
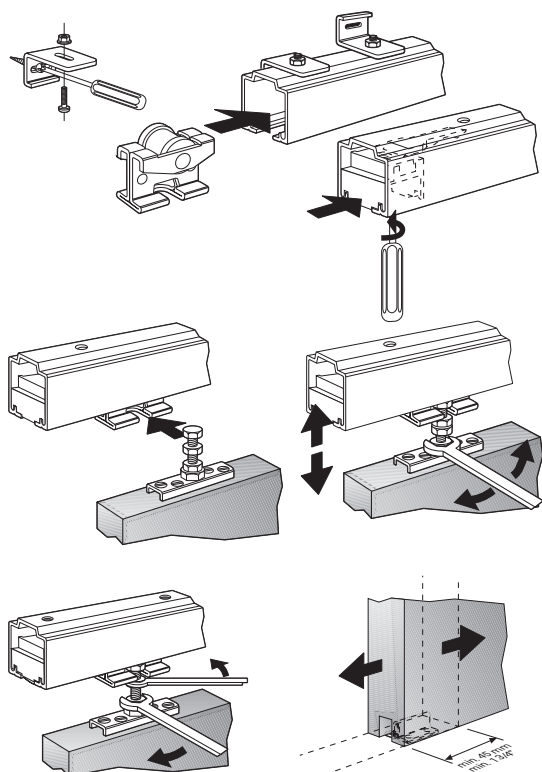
Set of accessories NK.45 for 1 sliding door up to 45 kg
REF. 0857



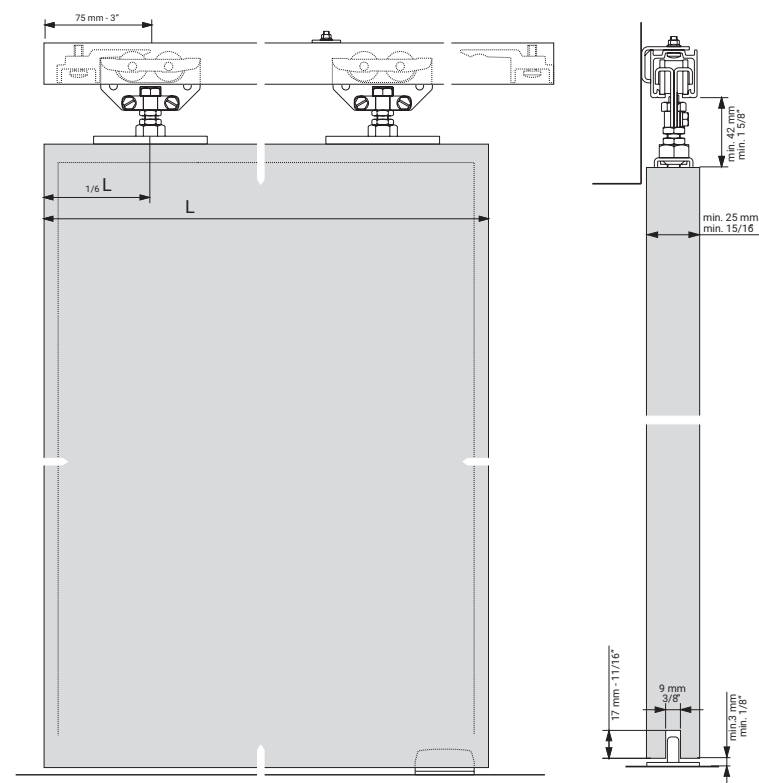
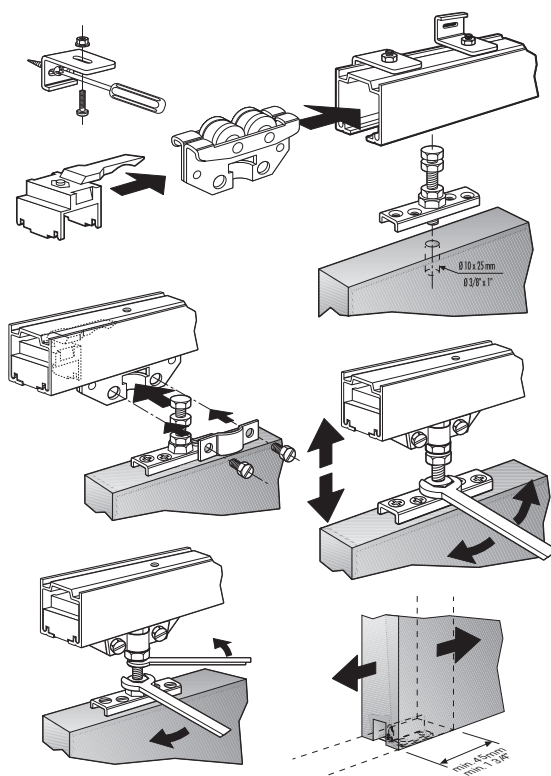
Set of accessories NK.80 for 1 sliding door up to 80 kg
REF. 0858

KLEIN NK.45 / NK.80 STRAIGHT SLIDING SYSTEMS

NK.45



NK.80



KLEIN NK.50 STRAIGHT SLIDING SYSTEMS

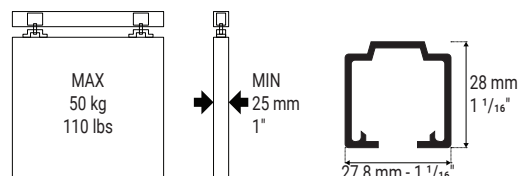
STRAIGHT SLIDING HEAVY DUTY DOOR GEAR FOR CUPBOARDS, ROOM DIVIDERS AND DOORS

The innovative NK.50 system features extruded aluminium track, injection moulded frictionless rollers, and in-track door stop which holds the door against its seals. There are three versions of the system:

- Standard top-plate type, for doors with pelmets.
- Side-plate type, for wardrobe doors without pelmets (4 mm. top gap).
- "Retrac" suspension profile type, for room dividers without pelmets (4 mm. top gap).

Maximum leaf weight: 50 kg.

Minimum door thickness: 25 mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
NK.50 TO SUIT DOORS UP TO 50KG (110LBS), MINIMUM DOOR THICKNESS 25MM				
2019	NK.45/NK.50 aluminium box track - mill finish, drilled every 250mm, 3 metres long	£55.11	length	1
3450	NK.50 "STANDARD" door fittings pack for one 50kg sliding door (top plate) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws & mounting instructions	£40.17	pack	1
OR 3451	NK.50 "RETRAC" door fittings pack for one 50kg sliding door (recessed) comprising 2 rollers, 2 adjustment bolts and blocks, 2 attachment brackets, 2 brake stops, 1 guide, screws & instructions	£76.32	pack	1
OR 3452	NK.50 "SIDE PLATE" door fittings pack for one 50kg sliding door (lateral plate) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions	£41.41	pack	1
3386	NK track wall bracket, to be mounted every 500mm (optional for track side fixing)	£1.81	each	100
3674	Bottom roller guide, zinc plate, nylon rubber (optional)	£4.03	each	5
3371	Lower plastic guide, spare part, grey, four holes	£1.81	each	100

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



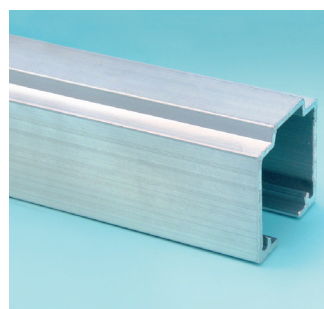
STANDARD TOP PLATE



RETRAC



SIDE PLATE



Mill finish aluminium track drilled every 25 cm
REF. 2019



Set of accessories NK.50 - Standard top plate for 1 door up to 50 kg
REF. 3450



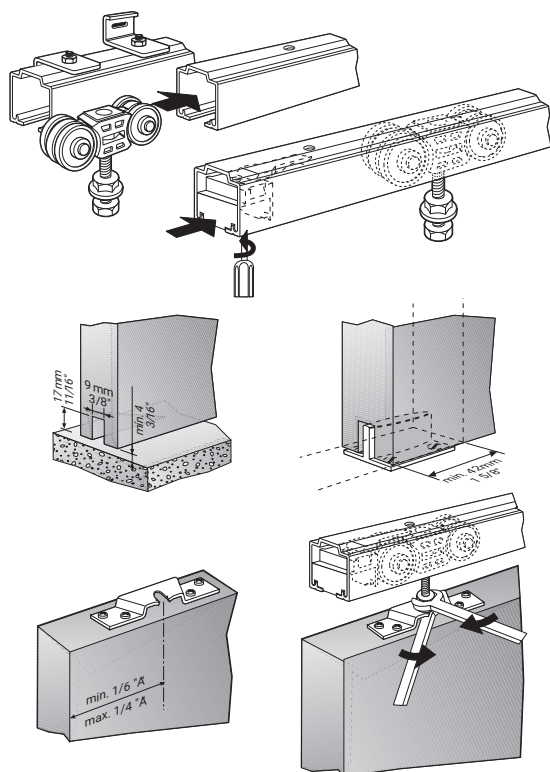
Set of accessories NK.50 "Retrac" for 1 door up to 50 kg
REF. 3451



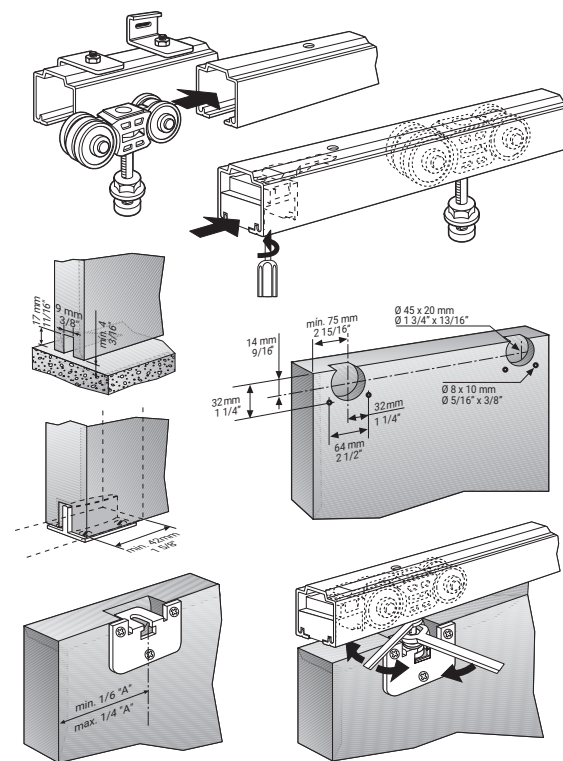
Set of accessories NK.50 Side plate for 1 door up to 50 kg
REF. 3452

KLEIN NK.50 STRAIGHT SLIDING SYSTEMS

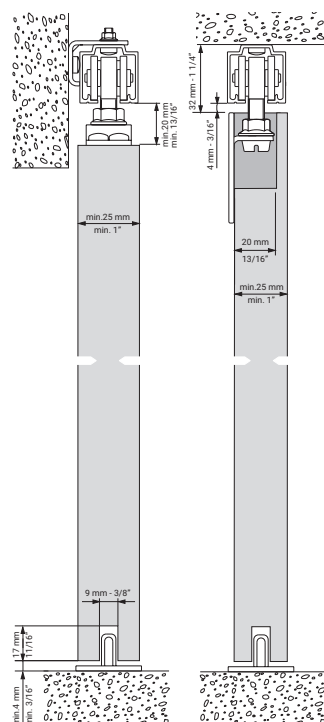
NK.50 STANDARD



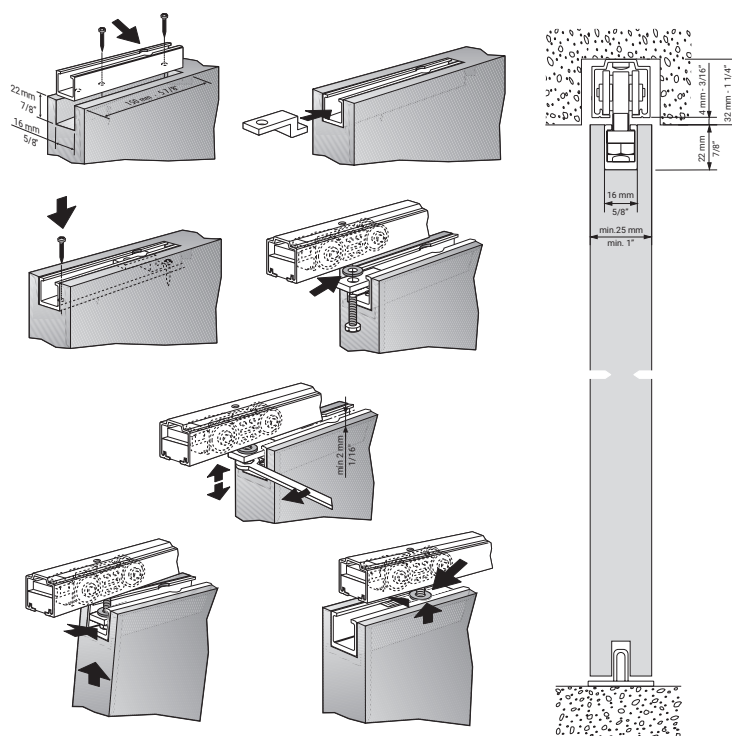
NK.50 SIDE PLATE



NK.50



NK.50 RETRAC



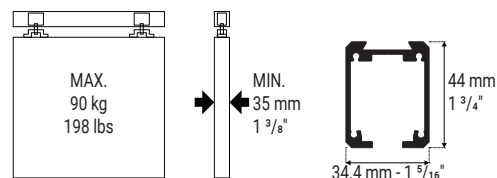
KLEIN SLID INTRA.90 POCKET DOOR SYSTEM

STRAIGHT SLIDING "POCKET" DOOR GEAR FOR ROOM DIVIDERS AND DOORS

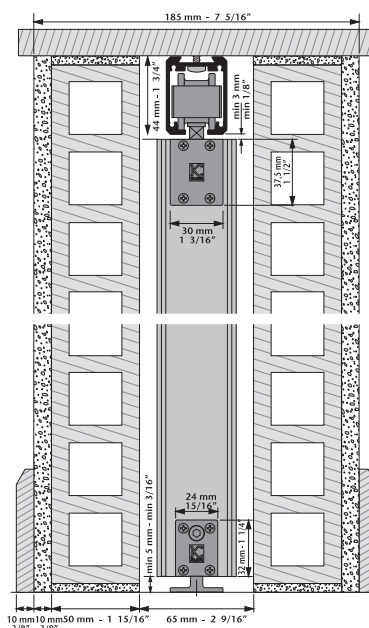
An innovative new straight sliding system from Klein enabling the door to slide away into a "pocket". The track is fitted in the opening and runs in-between walls enabling the door to slide into the "pocket". Suitable for timber doors weighing up to 90 kg the Slid Intra.90 is supplied in a kit form meaning one box contains all components required, and it also has the facility to adjust how much the door slides into the pocket to give full concealment or a slight projection for easier operation. The aluminium top track in conjunction with the injection moulded frictionless rollers gives a smooth effortless operation.

Maximum leaf weight: 90 kg.

Minimum door thickness: 35 mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
SLID INTRA.90 TO SUIT DOORS UP TO 90KG (198LBS), MINIMUM DOOR THICKNESS 35MM				
2702*	SLID INTRA.90 door fittings pack for one 90kg door comprising 1 top track, 2 rollers, 2 adjustment bolts and blocks, 1 brake stop, 1 guide, 1 mortice bottom guide channel, 2 cover plates, screws and mounting instructions. 2 metre opening.	£631.89	pack	1
2703*	SLID INTRA.90 door fittings pack for one 90kg door comprising 1 top track, 2 rollers, 2 adjustment bolts and blocks, 1 brake stop, 1 guide, 1 mortice bottom guide channel, 2 cover plates, screws and mounting instructions. 3 metre opening.	£718.62	pack	1
2704*	SLID INTRA.90 door fittings pack for one 90kg door comprising 1 top track, 2 rollers, 2 adjustment bolts and blocks, 1 brake stop, 1 guide, 1 mortice bottom guide channel, 2 cover plates, screws and mounting instructions. 4 metre opening.	£805.18	pack	1



2702*

Slid Intra.90 pack for 2000mm opening

2703*

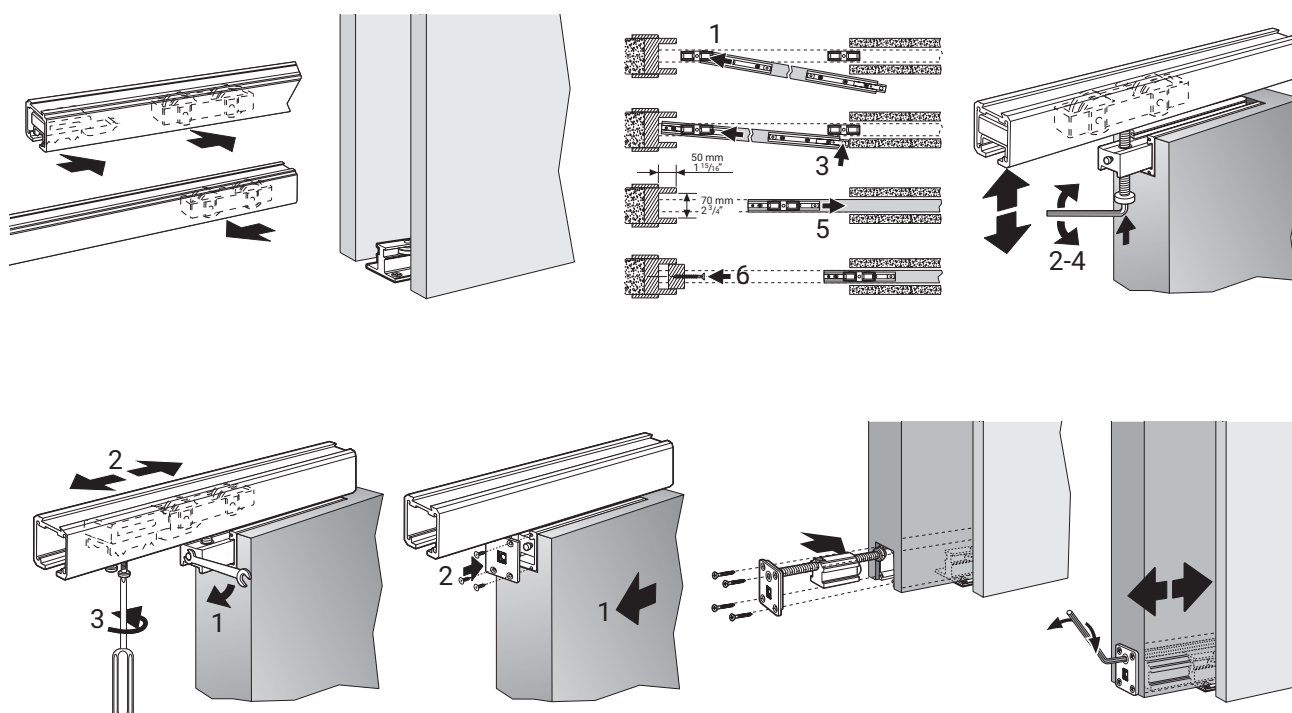
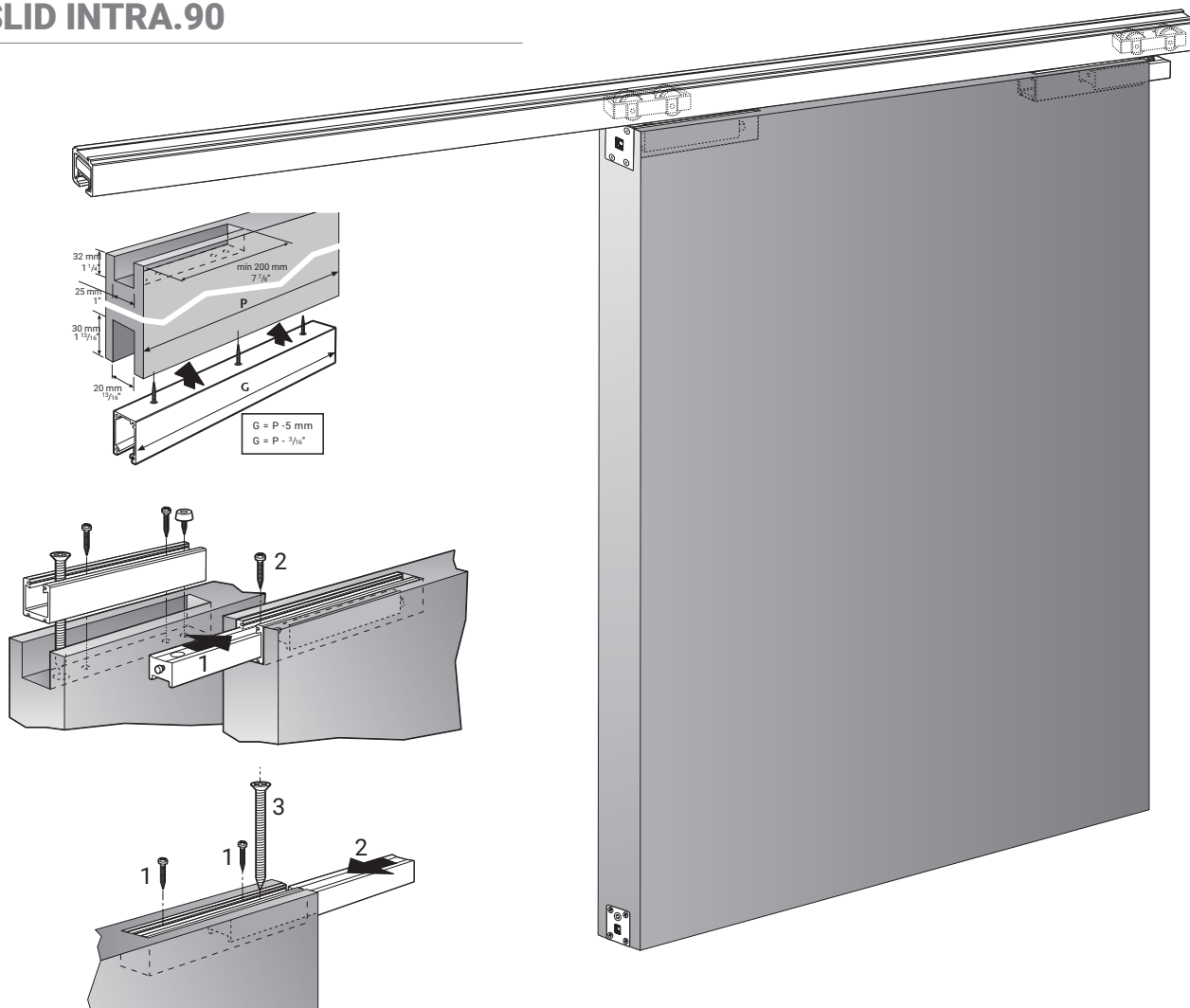
Slid Intra.90 pack for 3000mm opening

2704*

Slid Intra.90 pack for 4000mm opening

KLEIN SLID INTRA.90 POCKET DOOR SYSTEM

SLID INTRA.90



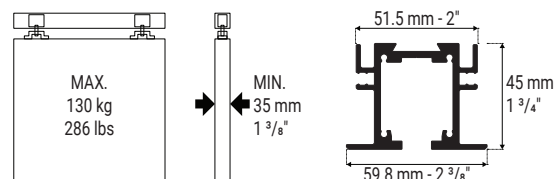
KLEIN SLID TOP.130 STRAIGHT SLIDING SYSTEM

STRAIGHT SLIDING CONCEALED DOOR GEAR FOR ROOM DIVIDERS AND DOORS

The SLID TOP.130 is a modern innovative straight sliding system that allows the top track to be mounted above the ceiling and be totally concealed. Suitable for timber or metal doors weighing up to 130 kg the Retrac fittings pack take the door right up to the ceiling leaving minimal gap so no pelmet is necessary. This gives a stunning visual appearance. The aluminium top track in conjunction with the injection moulded frictionless rollers gives a smooth effortless operation.

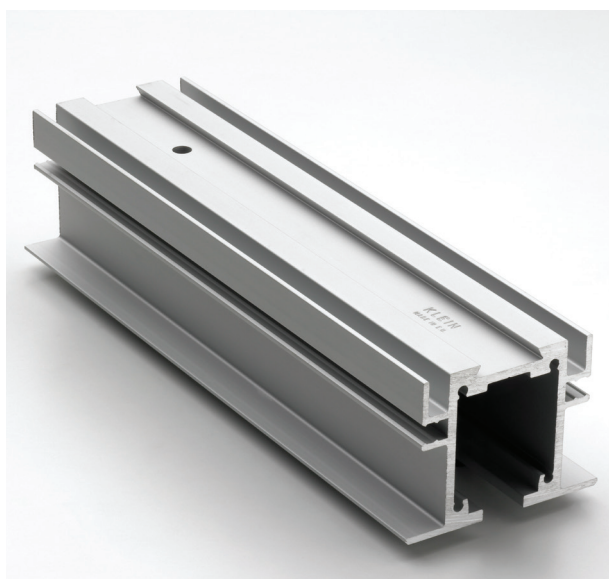
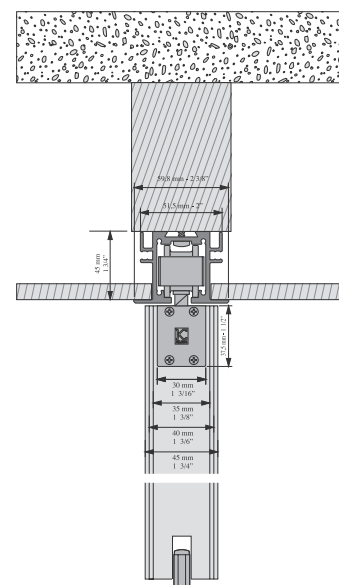
Maximum leaf weight: 130 kg.

Minimum door thickness: 35 mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
SLID TOP.130 TO SUIT DOORS UP TO 130KG (286LBS), MINIMUM DOOR THICKNESS 35MM				
2713	SLID TOP.130 aluminium top track - anodised silver finish, drilled every 250mm, 3 metres long	£359.22	length	1
2725	SLID TOP.130 "Retrac" door fittings pack for one 130kg door (recessed) comprising 2 rollers, 2 adjustment bolts and blocks, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions	£317.14	pack	1
2737	SLID TOP.130 End cover plates - anodised silver finish c/w screws	£69.04	pair	1

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



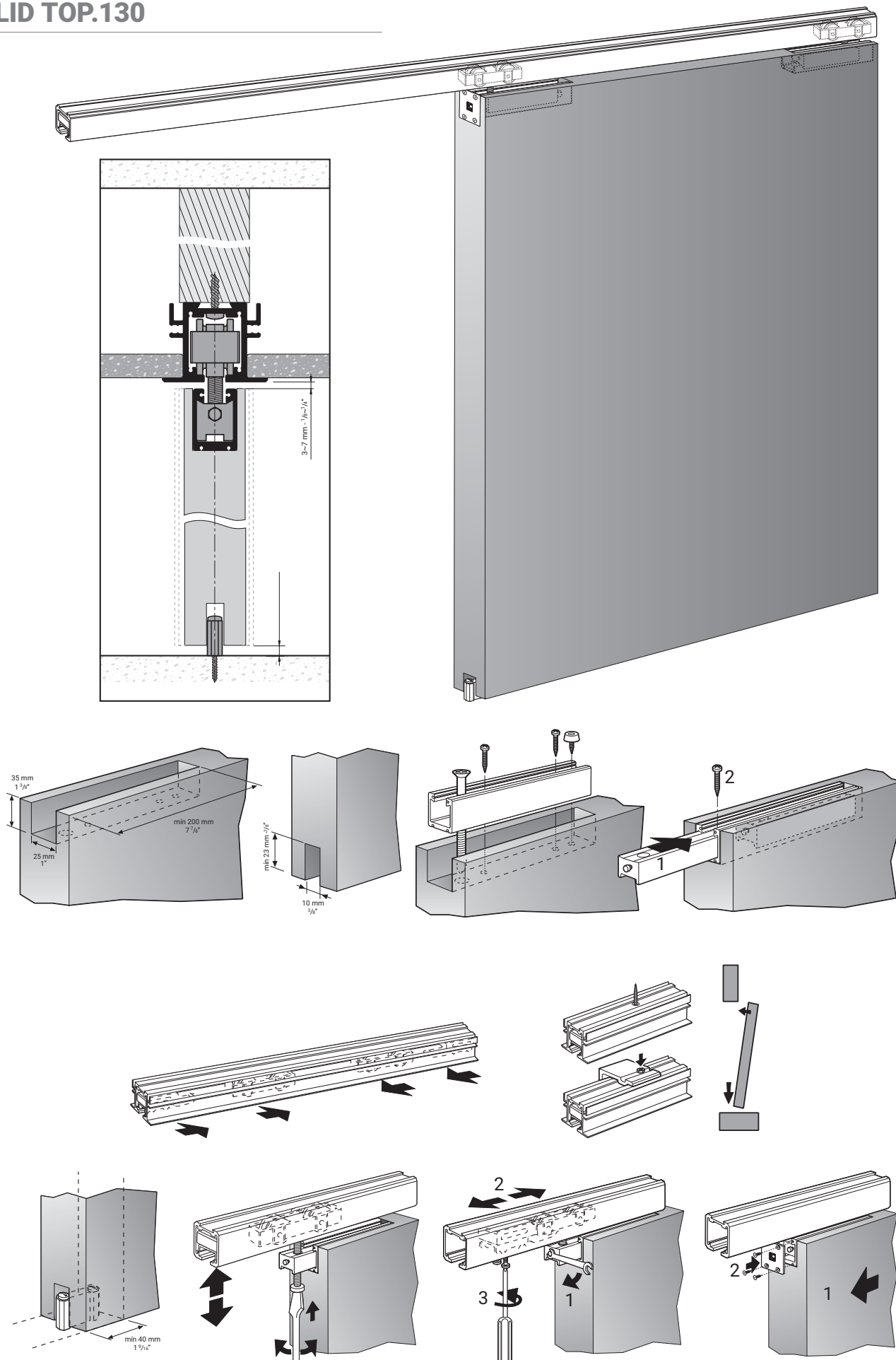
Anodised silver aluminium track SLID TOP.130 drilled every 25 cm
REF. 2713



Set of accessories SLID TOP.130 "Retrac" for 1 door up to 130 kg
REF. 2725

KLEIN SLID TOP.130 STRAIGHT SLIDING SYSTEM

SLID TOP.130



Price shown for * items may be subject to change. Please check before ordering.
 No charge for split boxes, but please try to order boxed quantity multiples where possible.
 All products usually available ex-stock except those marked with *. Call for lead time.
 Additional manufacturers carriage charges may apply for * items.

KLEIN SLID LATERAL 90 / 130 STRAIGHT SLIDING

STRAIGHT SLIDING HEAVY DUTY DOOR GEAR FOR ROOM DIVIDERS AND DOORS

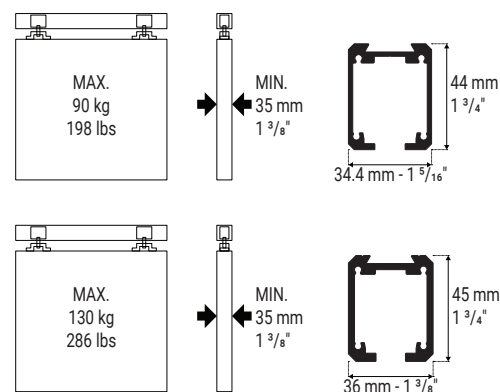
The advanced SLID.90 and SLID.130 are clean and innovative systems which are designed to suit sliding wooden or metal doors weighing up to 90 kg and 130 kg per panel respectively. They feature an anodised and lacquered aluminium top track which can be fixed within the opening or side fixing via optional wall brackets. Both systems offer easy door installation and disassembly. SLID.90 has "SLID-fricción" friction bearings whereas SLID.130 has ball bearings.

There are two versions of the system:

- Standard top plate, for doors with pelmets.
- "Retrac" suspension profile type, for room dividers without pelmets (with both sides visible), 3 mm minimum top gap.

Maximum leaf weight: 90 kg for SLID.90 and 130 kg for SLID.130.

Minimum door thickness: 35 mm for both systems.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
SLID.90 TO SUIT DOORS UP TO 90KG (198LBS), MINIMUM DOOR THICKNESS 35MM				
2743	SLID.90 aluminium box track - anodised silver finish, drilled every 250mm, 3 metres long	£163.14	length	1
2701	SLID.90 "STANDARD" door fittings pack for one 90kg sliding door (top plate) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions	£80.13	pack	1
2705	SLID.90 "RETRACTIL" door fittings pack for one 90kg sliding door (recessed) comprising 2 rollers, 2 adjustment bolts and blocks, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions (designed for pocket doors)	£155.20	pack	1
3594	SLID.90/SLID.130 silver aluminium bottom guide channel, mill finish, 3 metres long	£135.08	length	1
3531	SLID.90/SLID.130 track wall bracket, to be mounted every 500mm (optional for track side fixing)	£8.44	each	10
2717	SLID.90 track end cover caps, 2no., silver aluminium c/w screws (optional)	£54.86	pair	1
3674	Bottom roller guide, zinc plate, nylon rubber (optional)	£4.03	each	5
SLID.130 TO SUIT DOORS UP TO 130KG (286LBS), MINIMUM DOOR THICKNESS 35MM				
2753	SLID.130 aluminium box track - anodised silver finish, drilled every 250mm, 3 metres long	£270.65	length	1
2721	SLID.130 "STANDARD" door fittings pack for one 130kg sliding door (top plate) comprising 2 rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions	£158.76	pack	1
2725	SLID.130 "RETRACTIL" door fittings pack for one 130kg sliding door (recessed) comprising 2 rollers, 2 adjustment bolts and blocks, 2 attachment brackets, 2 brake stops, 1 guide, screws and mounting instructions (designed for pocket doors)	£317.14	pack	1
3594	SLID.90/SLID.130 silver aluminium bottom guide channel, mill finish, 3 metres long	£135.08	length	1
3531	SLID.90/SLID.130 track wall bracket, to be mounted every 500mm (optional for track side fixing)	£8.44	each	10
2727	SLID.130 track end cover caps, 2no., silver aluminium c/w screws (optional)	£56.21	pair	1
3674	Bottom roller guide, zinc plate, nylon rubber (optional)	£4.03	each	5

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



Set of accessories SLID. 90 "Standard"
for 1 door up to 90 kg
REF. 2701



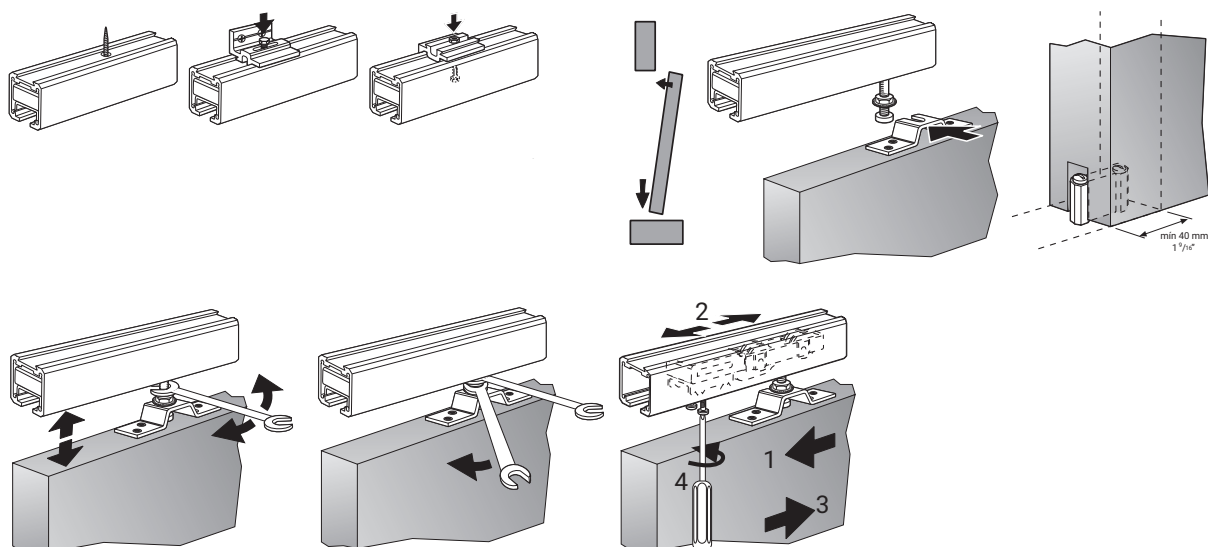
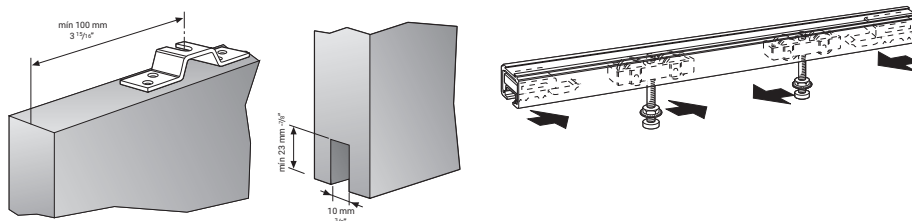
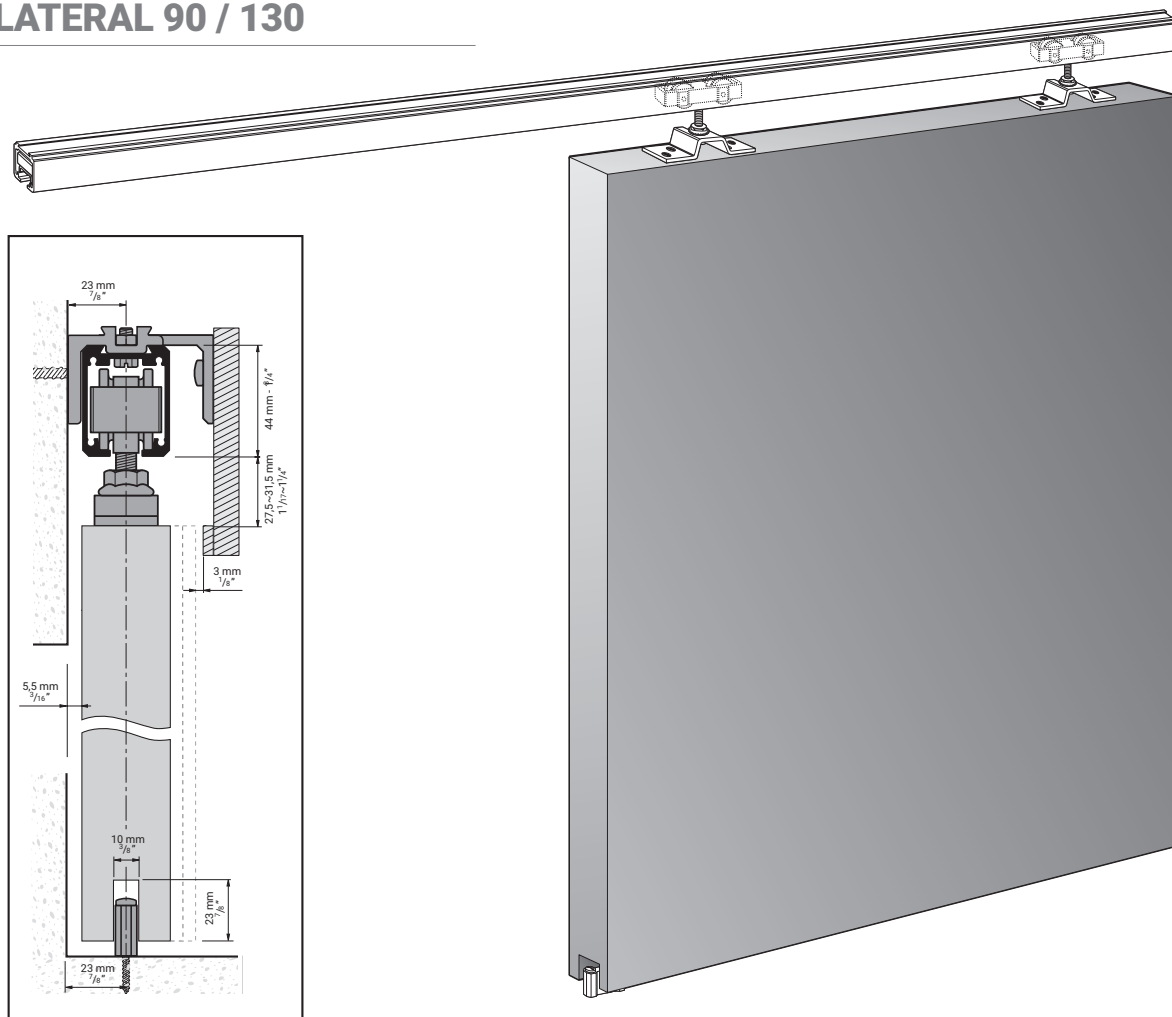
Set of accessories SLID. 90 "Retrac"
for 1 door up to 90 kg
REF. 2705



Anodised silver aluminium track SLID. 90
drilled every 25 cm
REF. 2743

KLEIN SLID LATERAL 90 / 130 STRAIGHT SLIDING

SLID LATERAL 90 / 130



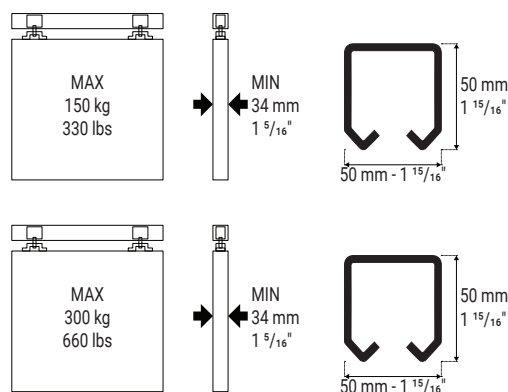
KLEIN K.150 / K.300 STRAIGHT SLIDING SYSTEMS

STRAIGHT SLIDING HEAVY DUTY DOOR GEAR FOR INDUSTRIAL DOORS AND PARTITIONS

Intelligent twin "V-groove" rustproof steel track profile and self-aligning 2 or 4 wheeled ball bearing steel rollers provide compact smooth-running endurance for wooden or metal interior/exterior sliding doors weighing up to 300 kg. Track and rollers are pre-installed before door is hung from door-mounted adjustable suspension bolts and installer-friendly locking collars. Unseen adjustable door stops in the track limit door travel, and steel guides control the door bottom.

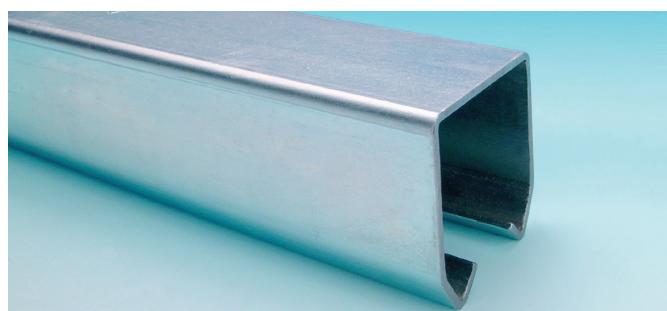
Maximum leaf weight: 150 kg (K.150) or 300 kg (K.300).

Minimum door thickness: 34 mm.

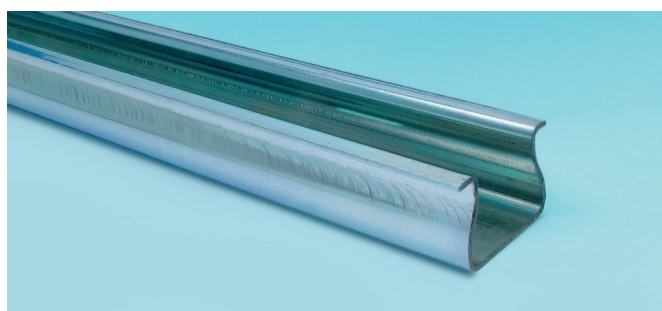


REF	DESCRIPTION	PRICE	UNIT	BOX QTY
K.150 TO SUIT DOORS UP TO 150KG (330LBS), MINIMUM DOOR THICKNESS 34MM				
3619	K.150/K.300 galv steel track, neocrom finish, drilled every 250mm, 3 metres long	£133.66	length	1
5502	K.150 door fittings pack for one 150kg sliding door comprising 2 x two wheeled ball bearing rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws & mounting instructions	£146.15	pack	1
3370.2	Steel guide channel, drilled every 130mm, neocrom finish, 2 metres long (optional)	£26.45	length	1
OR 3370.3	Steel guide channel, drilled every 130mm, neocrom finish, 3 metres long (optional)	£39.71	length	1
5521	K.150/K.300 track wall bracket - recommended every 600mm (optional for track side fixing)	£10.11	each	10
3683	K.150/K.300 track joint bracket (optional)	£28.68	each	2
5551	K.150/K.300 hanger plate	£5.48	each	10
5581	K.150/K.300 brake stop (spares)	£5.80	each	10
K.300 TO SUIT DOORS UP TO 300KG (660LBS), MINIMUM DOOR THICKNESS 34MM				
3619	K.150/K.300 galv steel track, neocrom finish, drilled every 250mm, 3 metres long	£133.66	length	1
5602	K.300 door fittings pack for one 300kg sliding door comprising 2 x four wheeled ball bearing rollers, 2 adjustment bolts, 2 attachment brackets, 2 brake stops, 1 guide, screws & mounting instructions	£227.30	pack	1
3370.2	Steel guide channel, drilled every 130mm, neocrom finish, 2 metres long (optional)	£26.45	length	1
OR 3370.3	Steel guide channel, drilled every 130mm, neocrom finish, 3 metres long (optional)	£39.71	length	1
5521	K.150/K.300 track wall bracket - recommended every 600mm (optional for track side fixing)	£10.11	each	10
3683	K.150/K.300 track joint bracket (optional)	£28.68	each	2
5551	K.150/K.300 hanger plate	£5.48	each	10
5581	K.150/K.300 brake stop (spares)	£5.80	each	10

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER



Steel top track - drilled every 25 cm - finished "Neocrom KLEIN"
REF. 3619



Steel bottom guide channel - drilled every 13 cm - finished "Neocrom KLEIN"
REF. 3370



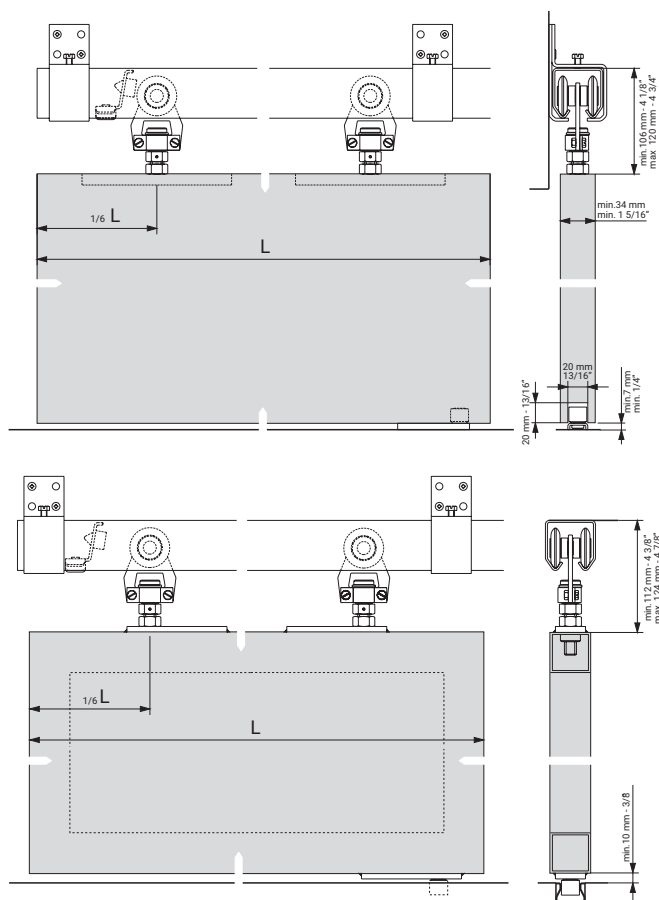
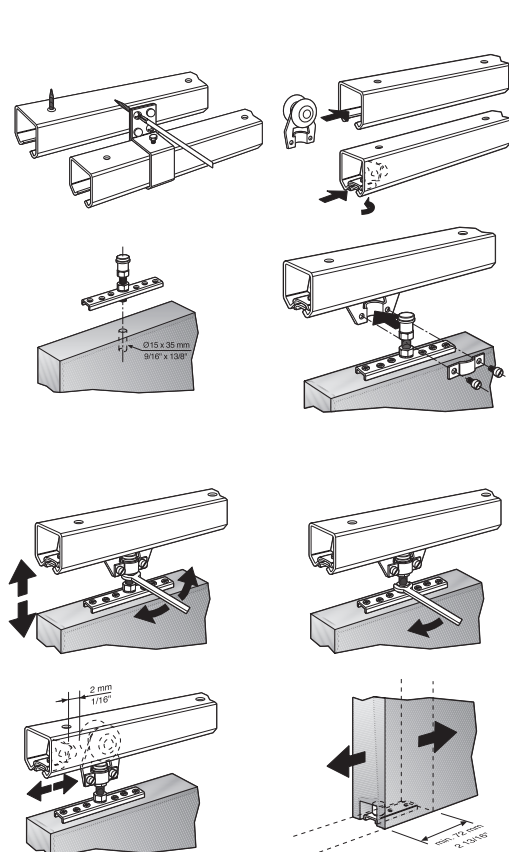
Set of accessories K.150 - for 1 door up to 150 kg
REF. 5502



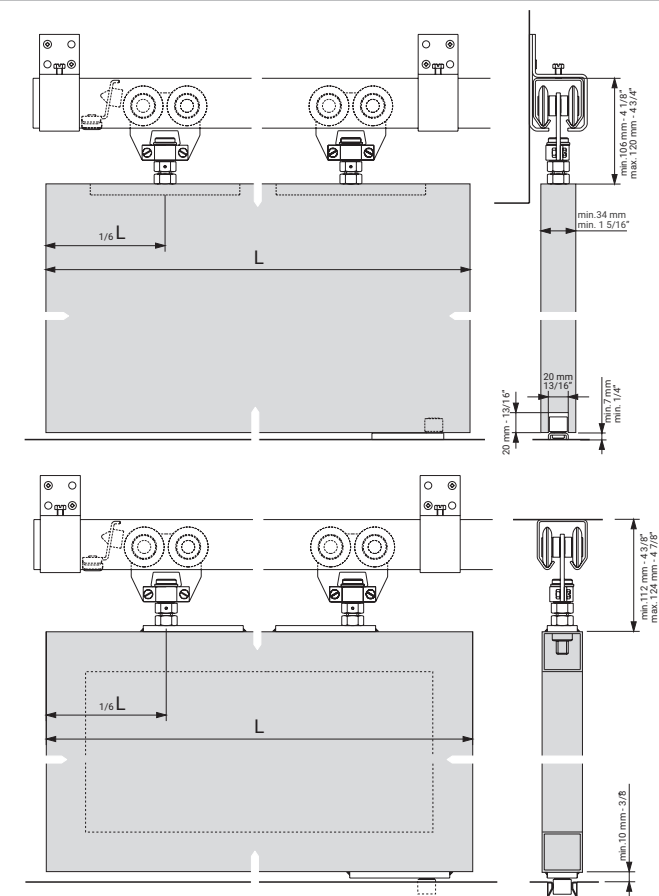
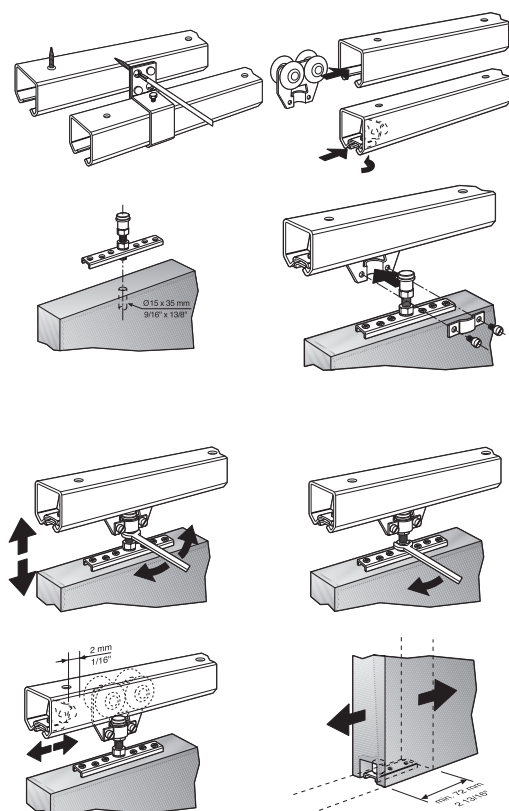
Set of accessories K.300 - for 1 door up to 300 kg
REF. 5602

KLEIN K.150 / K.300 STRAIGHT SLIDING SYSTEMS

K.150



K.300



KLEIN NK PAR.40 BI-FOLDING SYSTEMS

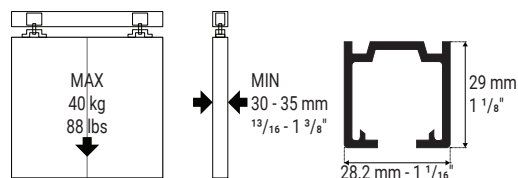
FOLDING SLIDING LIGHT DUTY DOOR GEAR FOR PARTITIONS AND ROOM DIVIDERS

Top-hung bi-folding room divider door system, with suspension brackets recessed into the door to minimise the gap between door and track.

Maximum leaf weight: 20 kg (40 kg per bi-fold pair of leaves).

Maximum leaf width: 600 mm.

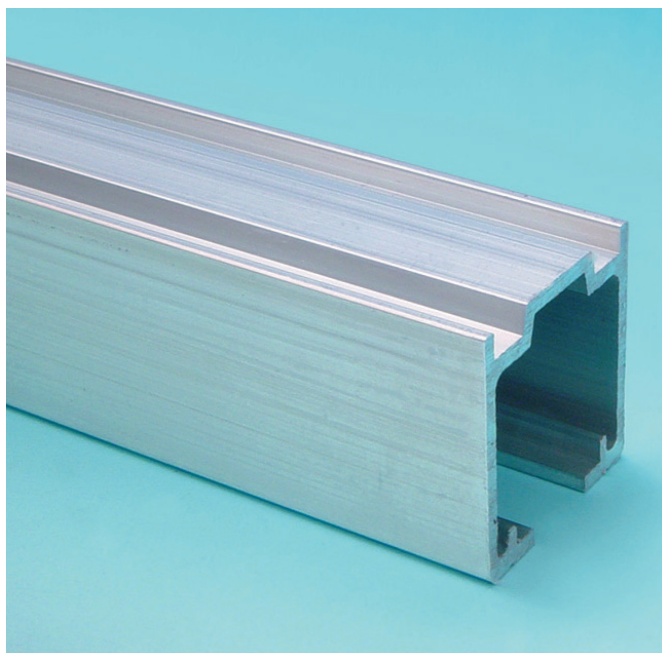
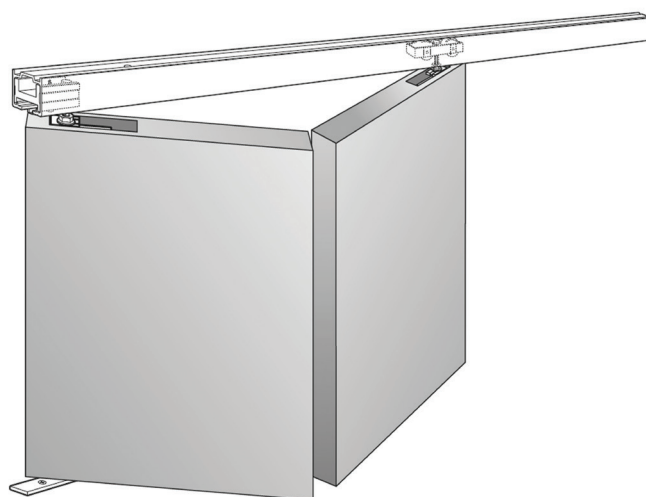
Minimum door thickness: 30 - 35 mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
NK PAR.40 TO SUIT BI-FOLD DOORS UP TO 20KG/LEAF (44LBS), MINIMUM DOOR THICKNESS 30-35MM				
2013	NK.80 aluminium box track - mill finish, drilled every 250mm, 3 metres long	£69.84	length	1
3710	NK PAR.40 door fittings set for two 20kg end-folding doors comprising 1 swivel bracket, 1 roller kit, 2 attachment brackets, 1 bracket with drill hole, 1 bracket with pin, 1 brake stop, screws & mounting instructions	£67.82	set ▲	2
3386	NK track wall bracket, to be mounted every 500mm (optional for track side fixing)	£1.81	each	100

OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER

▲ Packed 2 sets per box



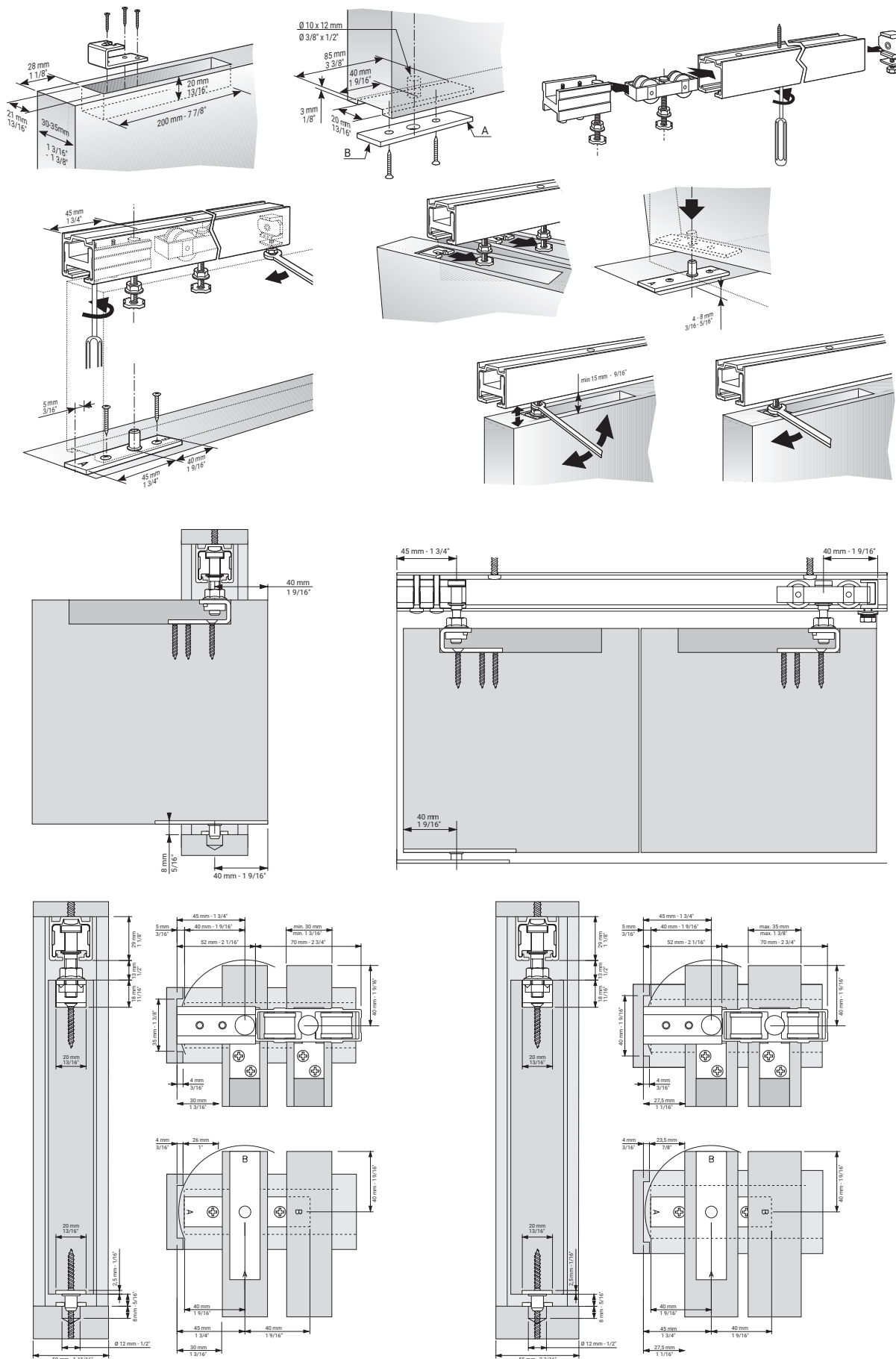
Mill finish aluminium track - drilled every 25 cm
REF. 2013



Set of NK PAR.40 accessories for a set of 2 panels up to 40 kg (1 set illustrated)
REF. 3710

KLEIN NK PAR.40 BI-FOLDING SYSTEMS

NK PAR.40



KLEIN PL.150 FOLDING SLIDING SYSTEMS

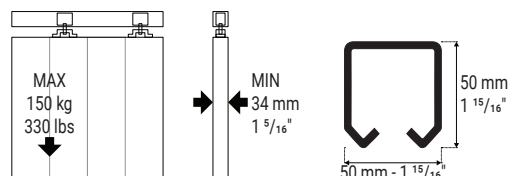
FOLDING SLIDING HEAVY DUTY DOOR GEAR FOR INDUSTRIAL DOORS AND PARTITIONS

Folding door system for multiple-leaf heavy wooden or metal partitions, available in both end-folding and centre-folding versions, using the same twin "V-groove" rustproof steel track as K.150/300. Track and rollers are pre-installed, before door leaves are hung from door-mounted adjustable suspension bolts and installer-friendly locking collars. Compact 4-wheel rollers enable door leaves to stack flat in the open position. A steel or aluminium bottom guide channel is recessed into the floor to ensure smooth safe operation.

Maximum leaf weight: 75 kg.

Maximum leaf width: 800 mm.

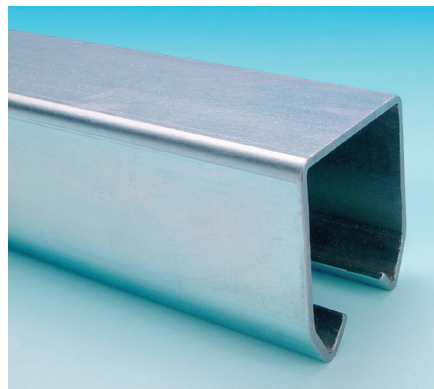
Minimum door thickness: centre-fold 34 mm, end-fold 40 mm.



REF	DESCRIPTION	PRICE	UNIT	BOX QTY
PL.150 TO SUIT MULTI-FOLD DOORS UP TO 75KG/LEAF (165LBS), MINIMUM DOOR THICKNESS 34MM CENTRE-FOLD, 40MM END-FOLD				
3619	K.150/K.300 galv steel track, neocrom finish, drilled every 250mm, 3 metres long	£133.66	length	1
3701	PL.150-S door fittings set for two 75kg frameless end-folding doors (4 wheeled bearing rollers) comprising 1 roller set, 1 offset hanger, 1 offset guide, screws & mounting instructions	£201.03	set ▲	2
OR 3702	PL.150-C door fittings set for two 75kg centre-folding doors (4 wheeled bearing rollers) comprising 1 roller set, 1 hanger, 1 guide, screws & mounting instructions	£108.38	set ▲	2
OR 3703	PL.150-E door fittings set for two 75kg end-folding doors (4 wheeled bearing rollers) comprising 1 roller set, 1 angle hanger, 1 angle guide, screws & mounting instructions	£147.76	set ▲	2
OR 3707	PL.150 door fittings pack for two 75kg centre/end-folding metal doors (4 wheeled bearing rollers) comprising 1 roller set, 1 plate hanger, 1 plate guide for weld fix & mounting instructions	£122.59	set ▲	2
3594	Aluminium guide channel - mill finish, 3 metres long (optional)	£135.08	length	1
OR 3370.2	Steel guide channel, drilled every 130mm, neocrom finish, 2 metres long (optional)	£26.45	length	1
OR 3370.3	Steel guide channel, drilled every 130mm, neocrom finish, 3 metres long (optional)	£39.71	length	1
5521	K.150/K.300 track wall bracket - recommended every 600mm (optional for track side fixing)	£10.11	each	10
3683	K.150/K.300 track joint bracket (optional)	£28.68	each	2

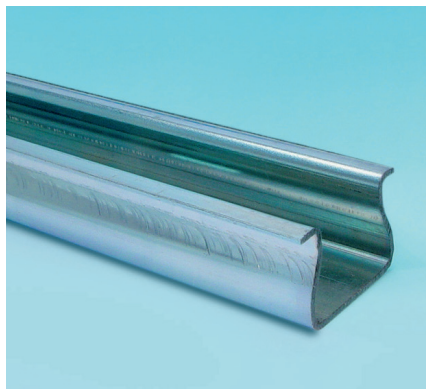
OTHER TRACK SIZES AVAILABLE, MAXIMUM 3.2 METRES BY COURIER

▲ Packed 2 sets per box



Steel top track - drilled every 25 cm - finished "Neocrom KLEIN"

REF. 3619



Bottom guide channel in steel - drilled every 13 cm

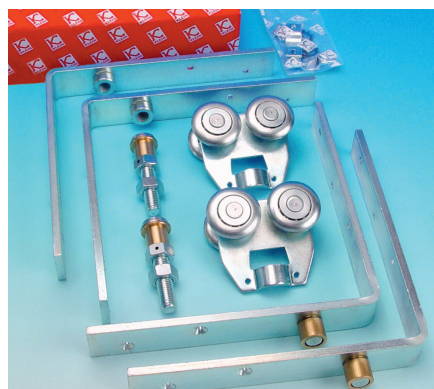
REF. 3370



Centre-folding set - ball bearing wheels "F.B.B."

2 sets (1 box) illustrated

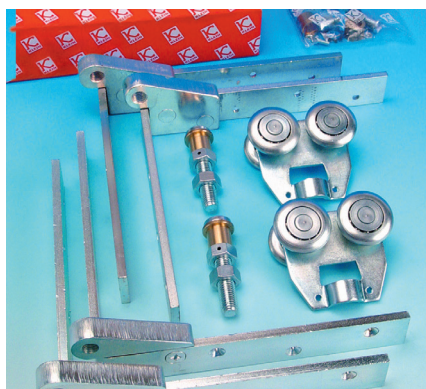
REF. 3702



End-folding set - ball bearing wheels "F.B.B."

2 sets (1 box) illustrated

REF. 3703



Frameless end-folding set - ball bearing wheels "F.B.B."

2 sets (1 box) illustrated

REF. 3701



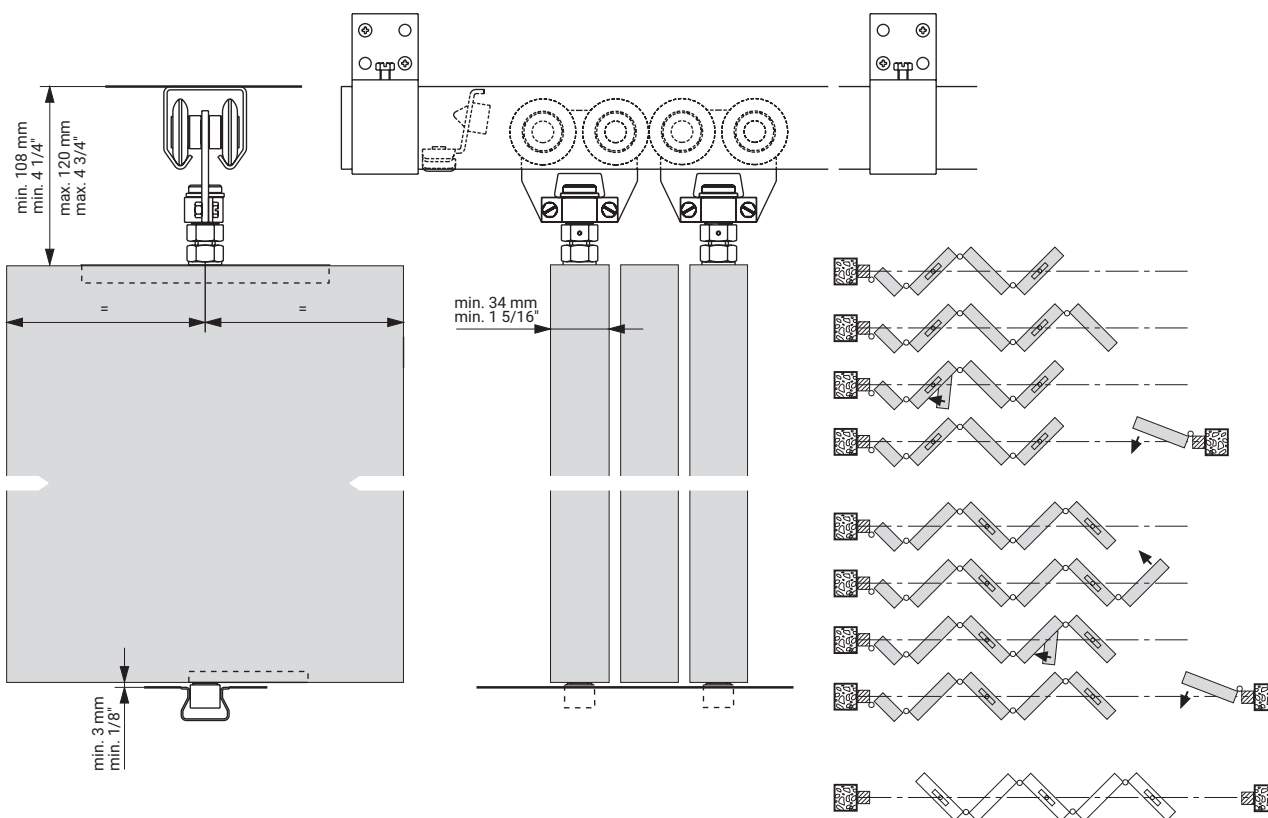
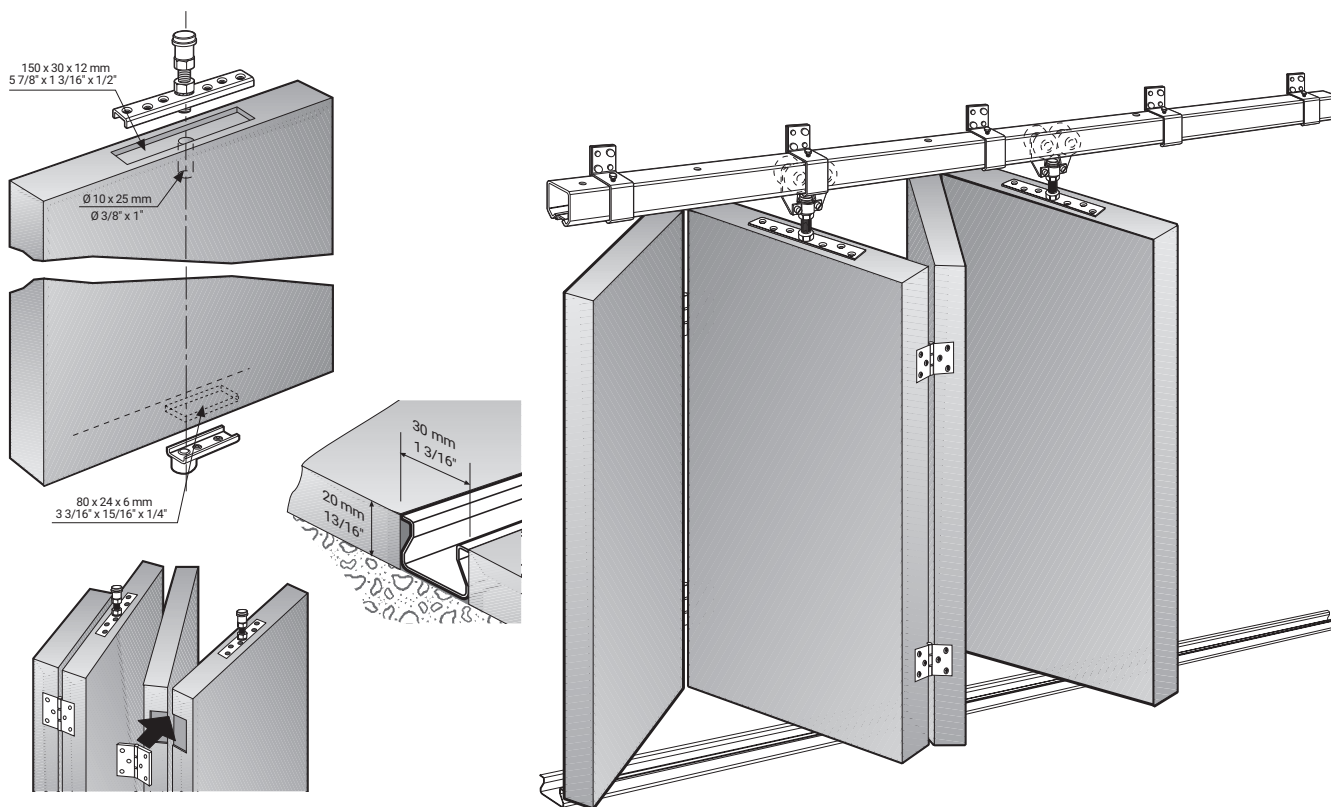
Centre or end-folding set "metal doors" - ball bearing wheels "F.B.B."

2 sets (1 box) illustrated

REF. 3707

KLEIN PL.150 FOLDING SLIDING SYSTEMS

PL.150 C - CENTRE-FOLDING DOORS



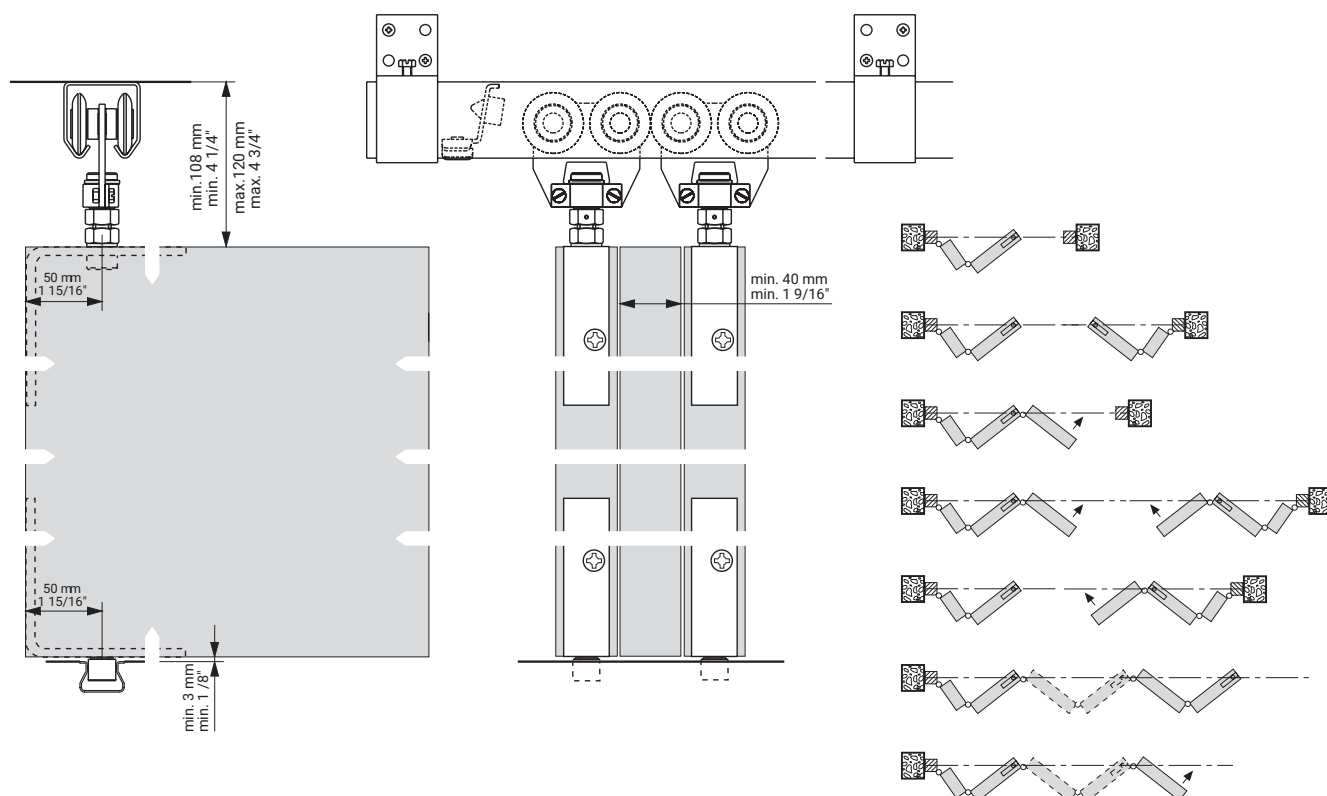
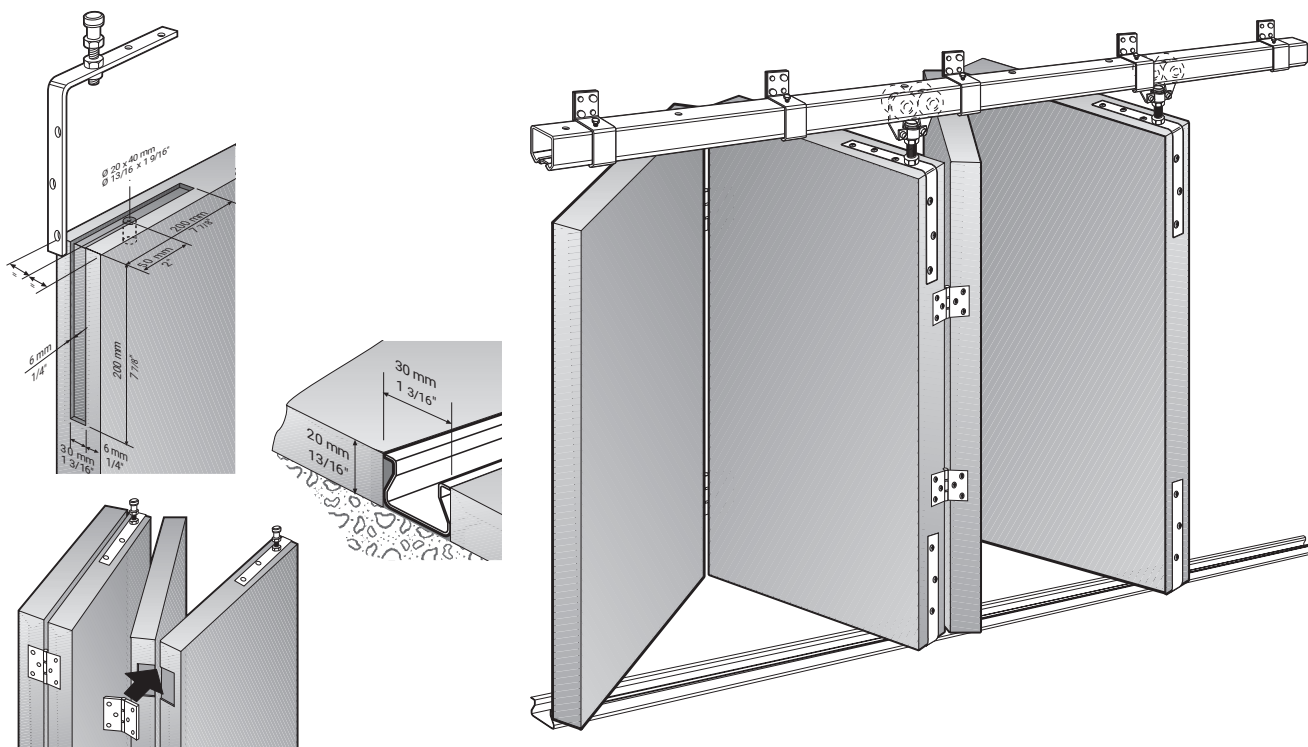
$$A = \frac{M+E+D-F}{N+1} - D \quad B = \frac{A-E}{2} - D$$

$$A = \frac{M+E/2+D/2-F}{N+0,5} - D \quad B = \frac{A-E}{2} - D$$

E = Thickness of the leaves
N = Number of large leaves

KLEIN PL.150 FOLDING SLIDING SYSTEMS

PL.150 E - END-FOLDING DOORS



[illegible]

The diagram shows a bolted joint with the following dimensions and formulas:

- D : Diameter of the bolt
- A : Distance from the center of the bolt to the center of the nut
- E : Thickness of the nut
- B : Distance from the center of the bolt to the center of the washer
- M : Total length of the bolt
- F : Distance from the center of the bolt to the center of the washer
- 50 mm : Thickness of the washer
- $1\frac{15}{16}"$: Thickness of the nut

Formulas for A and B :

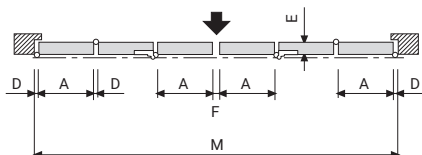
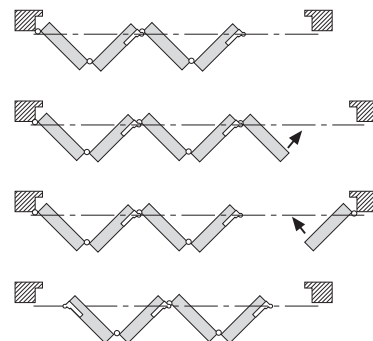
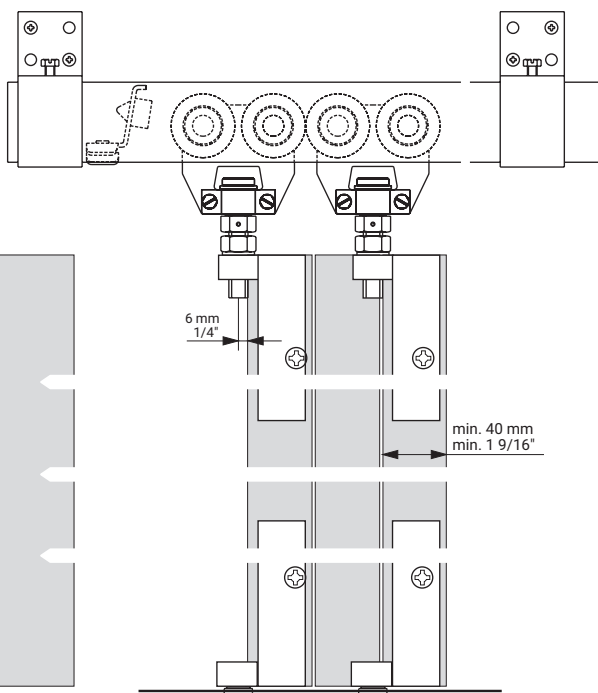
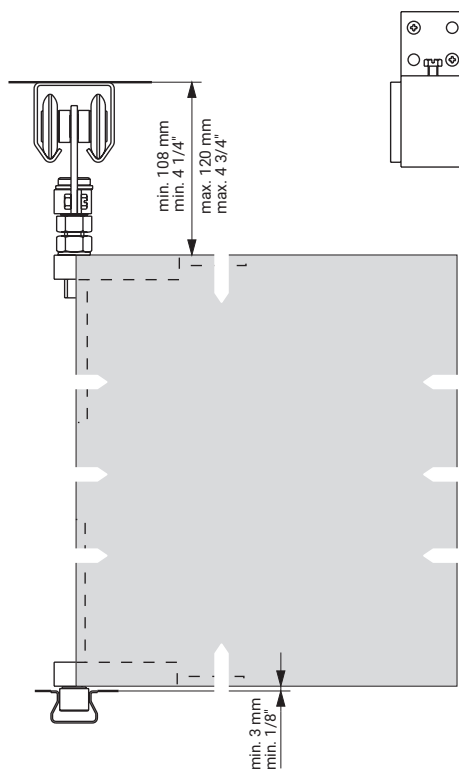
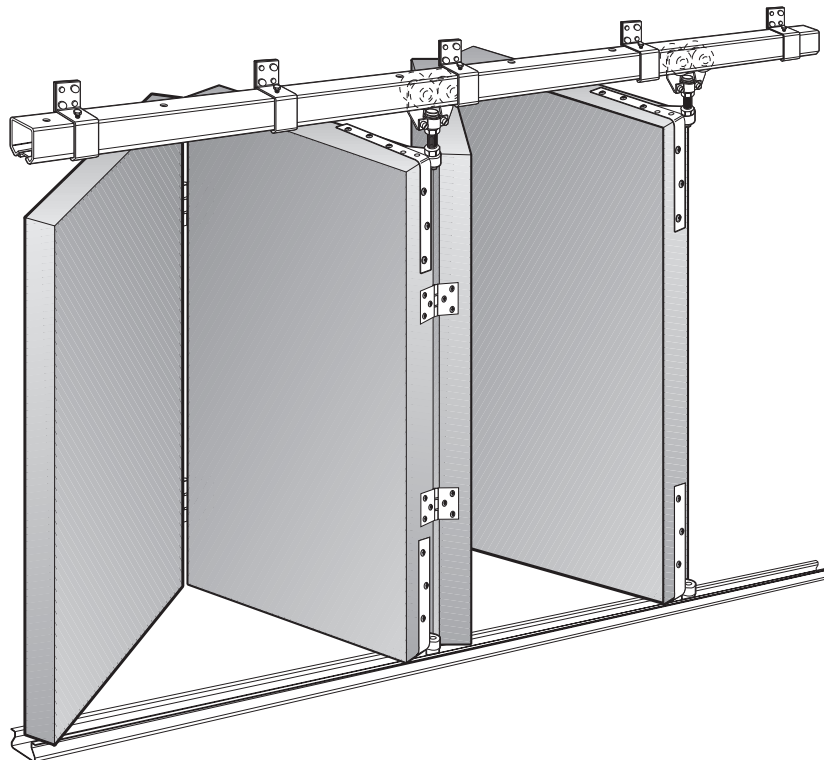
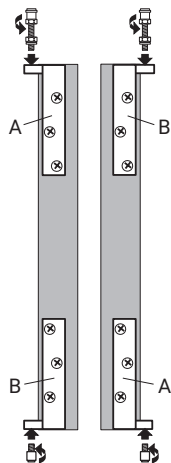
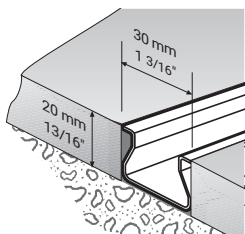
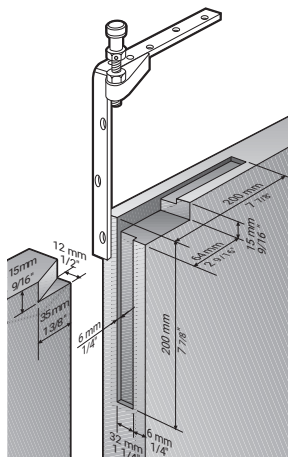
$$A = \frac{M + 50 + E/2 + D - F}{NT} - D$$

$$B = A - 50 - E/2 - D$$

E = Thickness of the leaves
NT = Number of large leaves

KLEIN PL.150 FOLDING SLIDING SYSTEMS

PL.150 S - FRAMELESS END-FOLDING DOORS



$$A = \frac{M-F}{N} - D$$

E = Thickness of the leaves
N = Number of large leaves

Price shown for * items may be subject to change. Please check before ordering.
No charge for split boxes, but please try to order boxed quantity multiples where possible.
All products usually available ex-stock except those marked with *. Call for lead time.
Additional manufacturers carriage charges may apply for * items.

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ALPHABETIC INDEX

ITEM	PAGE
Abloy concealed power transfers	150
Abrasive thresholds	25, 30-31
Access control	148-149
Acoustic door louvres	112
Acoustic frame seals	10-17, 52-53
Acoustic letter plate	169
Acoustic seals	4-17, 22-23, 39-46, 52-55, 64-65
Acoustic vision frames	80, 92
Adjustable door closers	124-127
Adjustable door viewers	166-167
Adjustable drop seals	4-9
Adjustable frame seals	10
Adjustable gate closer	129
Adjustable hinges	116
Adjustable louvres	106
Adjustable meeting stile seals	40-43
Adjustable mortice ball catch	143
Adjustable power door closers	124-127
Adjustable power floor spring	128
Adjustable thresholds	19, 30-32
Adjustable weld-on hinges	120
AFDL louvres	101-102, 104
Air control seals	49-51
Alarm switch kit for Briton panics	199, 201
ALD series modular rain drip	47
Aluminium brush strips	56
Aluminium continuous hinge	118
Aluminium letter plates	168
Aluminium louvres	105, 107
Aluminium ramp	32
Aluminium thresholds	18-33
Aluminium woven wire mesh	113
American spring rebound stays	204-205, 210
Ancillary locks	143
Anemostat acoustic vision frames	80
Anemostat adjustable louvre	106
Anemostat Klip together vision frame	81
Anemostat custom shape frames	84
Anemostat dark room louvre	106
Anemostat expandable louvres	102
Anemostat fusible link louvres	108-109
Anemostat glazing tapes	96
Anemostat HM clips	114
Anemostat intumescent aperture liner	99, 109
Anemostat LoPro vision frames	75-81, 86
Anemostat louvres	100-112
Anemostat metal louvres	100-112
Anemostat metal vision frames	74-86
Anemostat porthole	83
Anemostat security grilles	105, 107
Anemostat security vision frames	85
Anemostat stainless steel vision frame	81
Anemostat Stainless steel louvres	104
Anemostat storm proof louvre	105
Anemostat vision frames	74-86
Anemostat WoodPro vision frames	86
Angle Strap Hinge	230
ANSI automatic flush bolts	224, 225
ANSI door viewers	166-167
ANSI flush bolts	222, 224-225
ANSI self-latching flush bolts	225
Anti-bacterial finger protection	237
Anti-bandit glass	94
Anti-jemmy strip	158
Anti-ligature gasketing	48
Anti-panic locks	137-140, 142
Anti-slip threshold	25, 30-31
Anti-static brushes	59
Anti-thrust plates	159
Aperture liners	88-90, 99, 109-111
Astragals	159
Atomic strips	46
Auto deadlocking panic lock	139
Auto gate latch	229
Automatic door bottoms	4-9, 49-53
Automatic flush bolts	224, 226
Automatic gate bolt	231
Automatic relatching device	181
Back to back pull handles	162-163
Ball bearing hinges	115
Band hinge	230
Banded glass vision frames	93
Barrels for locks	146-147
Barrier rails	220
Bat wing type seals	63
Bathroom turn & indicator sets	165

ITEM	PAGE
Battery back up units	149
Beech door seals	69
Bevelled dog bolt	122
Bevelled sill sweep	34
Bezel lids	155
Bezels	155
BFL-75 vision frames	82
Bi-folding sliding door gear	256-257
Biowall finger protection	237
Bird mesh	113
Birds beak door holders	215
Black iron gate fittings	229
Black rubber doorstops	213-216
Blind door pull	161
Blind thumbturn cylinder	147
Blue & white Fire door signage	170
Bolt security tags	226
Bolt sockets	228-229
Bolt through fixing packs	161
Bolt through pull handles	162-163
Bommer type hinges	121
Bottom fire bolts	226
Bottom straps	129
Bow handle bolts	229
Brass astragals	159
Brass lever action flush bolts	227
Brass thresholds	18, 20, 22, 26, 28
Break glass units	149
Breaksecure security cylinder	145
Brenton padlock bolts	229
Briton 5 lever BS locks	137
Briton 376 Series	194-197
Briton door closers	125-127
Briton exit hardware	194-201
Briton lock cases	137
Briton outside access devices	196
Briton 560-570 accessories	199
Bronze spring seals	46
Brush filaments	57
Brush pile seals	61
Brush seals	15-17, 35, 37, 40-45, 47, 56-60
Brush strip seals	35, 56
Budget door closers	125, 127
Budget door viewers	166-167
Budget frame seals	16-17
Buffered hat & coat hook	165
Bulb sill sweep	34
Bulkhead thresholds	23, 29-30
Bullet bolt head	228
Bullet hinges	120
Bullet proof door viewer	166
Bumper strip seals	58
Butt hinges	115-117
Butt thresholds	26-28
Butyl	68
Cabin hooks	229
Cable fast fix latch kits	198-199, 201
Calcium magnesium silica glazing tape	98
Cam action door closers	125
Cam strip brush seals	57
Cane bar door restraint	219
Carbon fibre anti-static brush	59
Card frame holders	168
Carpet divider thresholds	28-29
Cash room door viewer	167
Cast receiver socket	229
CE marked hinges	115-116
Centre-folding sliding door gear	258-260
Centre lock set	156
Ceramic glass	83, 88, 90, 95
Ceramic type glazing tapes	74, 88-90, 98
Chain bolts	229
Channel spring recoil stay	209
Checker plate thresholds	29
Childrens' finger strips	232-237
Chunky sill sweep	34
Chute bezels	155
Cill sweeps	34-37, 56-60
Circular bezel	155
Circular flush pulls	161
Circular vision frames	88-92
Classroom acoustic seals	54
Clip on roller shutter seal	58
Clip together vision frames	81
Closed cell sponge seals	66-67, 96-97
Closed cell foam glazing tape	96

ITEM	PAGE
Closed flat continuous hinge	119
Clutch head security screws	114
Coat hooks	165
Coded lock	148, 196, 201
Cold smoke seals	63-65
Collared door stay	212
Combination locks	148, 196, 201
Composit New panic exit devices	184-185
Compress-O-Matic frame seals	11, 50-51
Concealed door loops	153
Concealed fixing pull handles	162-163
Concealed fixing vision frames	81
Concealed flush bolts	222-227
Concealed hinges	116
Concealed power transfers	150-151, 153-154
Concealed transom closers	123
Concertina folding shutter seals	59
Conduit power transfer	150-154
Conical rubber buffer	216
Continuous hinges	118-119
Contipin hinges	119
Co-ordinators	131-135
CORNI escape hardware	174-190
Cranked handle bolts	231
Cranked pull handles	163
Cupboard knobs	155
Cupboard sliding door gear	242-245
Curved vision frames	84
Cushion seals	46
Custom shape vision frames	84
Cycle supports	220
Cylinder & turn	146-147
Cylinder operated flush bolts	227
Cylinder pulls	161
Cylinder shroud	160
Cylinders	146-147
Cylindrical door stop & holder	214
D seals	66
Dade County seals	49
Dark room louvres	106
DEG edge guards	71
Detachable floor spring spindles	129
Detachable terminal block door loop	154
Diamond plate	29
Digital locks	148, 196, 201
Digital QAD	196, 201
Discreet vision panels	93
DNP swing door profiles	55
Doc M thresholds	18-19, 22
Doc M visions	74
Dog bolt hinges	115
Dog bolts	122
Door bottoms	4-9
Door buffer & holder	214-215
Door buffers	55, 214-216
Door chains	210, 212
Door closers	123-129
Door co-ordinators	131-135
Door edge guards	71
Door friction stays	202-212
Door furniture	160-169
Door grilles	100-112
Door handles	160-163
Door hinges	115-121
Door holders	165, 202-219, 231
Door limiters	202-220
Door locks	136-143
Door loops	152-154
Door louvres	100-112
Door protector chains	210, 212
Door restraints	218-220
Door selectors	131-135
Door silencers	55
Door stays	202-212
Door stops	165, 213, 213-217
Door stops & holders	213-217, 231
Door viewers	166-167
Door windows	74-93
Double action meeting stile seals	40-41, 55
Double action strike plate	70
Double glazed portholes	91
Double glazed vision frames	76-79
Double sided glazing tapes	96
Drip bars	35, 47
Driver bits	114, 234
Drop bolt	229

ALPHABETIC INDEX

ITEM	PAGE
Dropseals	4-9, 49, 52-53
Dropseal end caps	9
Dry glazing tapes	66-67, 97
Durham pattern door buffers	214
Dust excluding sockets	228
Dust proof strikes	228
Easy clean sockets	228
Edging trims	155
Electromagnets	149
Elite glass door locks	156
Elite glass door patch fittings	157
Ellen DNP seals	55
Ellen Finprotect Plus	232-235
Ellen glass door seals	45
Ellen letter plate draught seals	168
Ellen modular rain drip	47
Ellen renovation seals	69
Ellen Universeal	69
Ellen wooden frame seals	69
Emergency door stop	70
Emergency pivot sets	70
Emergency push pad	176-177, 195, 198
Emergency rescue hardware	70
Emergency signage	170-173, 199
End-folding sliding door gear	256, 258-260
End-loading arm	123
End cap for dropseals	9, 47
Entrance pull handles	163
EPDM glazing tapes	66-67, 97
EPDM rubber wiper seals	57
EPDM seals	66-67, 97
Epoxy abrasive thresholds	25, 30-31
Escutcheons	160
Euro cylinder pull	161
Euro profile cylinders	146-147
European lockcases	136-139
Eurosmart panic exit devices	180-181
Exit buttons	149
Exit hardware	174-201
Expandable louvres	102
Expansion joint thresholds	29
Extended rebate catch	133
Extended sill sweeps	34
Extending door viewers	166-167
Extension rod	228
Extra heavy duty door stay	205
Fabric finger roller blinds	236
Fast fix cable latch kits	199, 201
Fasteners	114
FBLS fire block louvres	110-111
FDLS louvres	103-105
FGS-75 vision frames	82
Filler bar co-ordinator	134
Finger plates	162, 164
Finger protection	232-237
Finger roller blind	236
Fingershield	236
Finprotect Plus	232-235
Finprotect Plus linking piece	234
Fire & smoke seals	62-65, 71
Fire action notice	172
Fire block louvre systems	110-111
Fire door co-ordinators	132-133
Fire door discs	170
Fire door signs	170, 172-173
Fire exit signage	172-173, 199
Fire grilles	108-111
Fire rated aperture liners	99
Fire rated door viewers	167
Fire rated fusible link	108-109
Fire rated flush bolts	222
Fire rated glass	95
Fire rated glazing tapes	88-90, 98
Fire rated intumescent strips	71, 73
Fire rated letter plates	168-169
Fire rated louvres	108-111
Fire rated portholes	83, 88-92
Fire rated privacy screens	93
Fire rated setting blocks	99
Fire rated thresholds	22
Fire rated vision frames	74-93
Fire relay	149
Fire safety signage	170, 172-173
Firelite glass	83, 88, 90, 95
Fish-eye door viewer	166
Fixed strength door closer	127

ITEM	PAGE
Fixings	114
Flag hinges	117
Flat edge guard	71
Flat receiver plate	229
Flat thresholds	18-21, 30-31, 33
FDL fusible link louvres	108-109
Flexible brush strip seals	60
Flipper seals	63
Flo-option drop seals	8
Flo-option seals	8, 36
Floor dust proof strike	228
Floor fixing doorstops	165, 214-217
Floor hinges	128-129
Floor springs	128-129
Floor spring accessories & spindles	129
Flush bolt sockets	228
Flush bolts	222-227
Flush bolt strikes	228
Flush bolt spares	228
Flush bolt extended & spare rods	228
Flush pulls	161
Flyscreen closers	123
Folding shutter seals	59
Folding sliding door gear	258-261
Foot operated bolts	165, 214, 229
Foot operated door holders	165, 214, 229
Frame boxes for hinges	116
Frame seal brackets	13
Frame seals	10-17, 38-43, 48-69
Frameless end-folding sliding door gear	256-261
French square floor spring spindles	129
Friction door stays	202-213
FS dropseal	8
FS intumescent	73, 99
FS3003 intumescent	73
FS4004 hinge & lock packs	72
FS4004 intumescent aperture liners	73, 99, 111
FS9009 "ceramic type" glazing tapes	88-90, 99
Full body strength thresholds	33
Fully adjustable frame seals	10
Fusible link louvres	108-109
Galvanised mesh	113
Garage door drop bolts	229
Garage door holders	203
Gate bolt	231
Gate closers	130
Gate fittings	229-231
Gate latches	229
Gate stops	231
Geared continuous hinges	118
Georgian wired glass	83, 90, 95
German rectangular spindles	129
Glass	88-92, 94-95
Glass circles	88-92, 94-95
Glass door locks	156
Glass door patch fittings	157
Glass door pull handles	162-163
Glass door seals	44-45
Glazed vision panels	74-93
Glazing	83, 88, 90, 94-95
Glazing channels	97
Glazing setting blocks	99
Glazing tapes	66-67, 90, 96-98
Glow Traction Tread	31
Goal post door holders	218
Grade 13 stainless steel hinges	115
Grade 316 stainless steel fittings	230-231
Graphite intumescent	73, 99
Gravity door holder	215
Gravity louvres	107
Gravity type co-ordinators	131-133, 135
Grease nipple weld on hinge	120
Green dome exit button	149
Grey brush pile	61
Grey rubber silencer	55
Guardsman entrance pulls	163
Half spindles	161
Half thresholds	23
Hanging plates for dropseals	9
Hasp & staples	229
Hat & coat hooks	165
Head & jamb seals	10-17, 49-55, 61-69
Head fixing door protector chain	212
Heavy duty door buffers	214, 216-217
Heavy duty door stays	204-206
Heavy duty hinges	116

ITEM	PAGE
Heavy duty multi-point lock	141
Heavy duty sliding door gear	254-255
High 12.7mm flat thresholds	20-21
High abuse floor stops	217
High security metal vision frames	85
Hinge bolts	122
Hinge pads, intumescent	72
Hinge pins	230
Hinge receiver	116
Hinges	115-121, 229-231
HM clips	114
Hollow metal door clips	114
Hollow profile dry glazing tape	67, 97
Hooded louvres	107
Hooks & bands	230
Hoop barriers	219
Hoop post door restrainers	218-219
Hotel door lock	139
Hurricane protection seals	49
Hydraulic door closers	123-127
Hydraulic gate closers	130
Impregnated setting blocks	99
Independent hinge bolts	122
Indicator bolts	165
Industrial door limit stay	208
Industrial sliding door gear	254-255
Insect mesh	113
Insulated glass vision frames	76-79
Insulated roller shutter seals	58
Interlinking thresholds	30-32
Interlocking ramps	32
Interlocking watershed	47
Intumescent	71-73
Intumescent aperture liners	89-90, 99, 108-111
Intumescent door edge guards	71
Intumescent dropseals	8
Intumescent fire blocks	110-111
Intumescent frame seals	12, 71-72
Intumescent hinge pads	72
Intumescent lock packs	72
Intumescent strips	71
Intumescent teardrop seals	68, 72
Inverted split Y louvre	103-105
Italian square spindles	129
Jamb fixing door protector chain	212
Jamb fixing door stays	208, 210
Jason gravity louvres	107
Jolly handle	174, 176, 178, 188-189
Kaba digital locks	148
Kerf frame seals	38
Keyed alike cylinders	146-147
Keyhole cover	160
Keypads	148-149
Kick down door holder	215
Kick plates	164
KISO dry glazing tapes	66-67, 97
KISO EPDM seals	66-67, 97
KISO 380	68
Klein sliding door gear	238-261
Klip together vision frames	81
L bracket for magnetic lock	149
L seals	67
Laminated glass	89, 90, 92, 94
Laminated white glass	94
Lanai door closer	123
Latchtrack thresholds	22, 23
Lattice security grilles	107
Lead cover	150-151
Leading edge fire door signage	173
Legge BS 5 lever locks	137
Leicester pattern wall buffer	213
Letter plates	168-169
Letter plate security cowl / catch	169
Lever action flush bolts	222-223, 227
Lever handle spindles	161
Lever handles	160
Lift off flag hinges	117
Light springing dropseals	8
Limit stays	202-212
Link bars for multi-point locks	140
Linking channel for finprotectplus	234
Lite kits	74-93
Lo-FP porthole vision frames	83
Lock barrels	146-147
Lock cylinders	146-147
Lock down doorstop	214

ALPHABETIC INDEX

ITEM	PAGE
Lock packs, intumescent	72
Lock plate security astragals	159
Lockable flush bolts	227
Lockable vision frames	85
Locking bolt	229, 231
Locking nut for dropseal	5
Locks	136-149
Lolly pop signs	173
Loop handle bolts	231
LoPro vision frames	74-86
LoPro-CS vision frames	84
LoPro-IS vision frames	76-79
LoPro-K Klip together vision frames	81
LoPro-SC security vision frames	85
LoPro-SS stainless steel vision frames	81
LoPro-STC acoustic vision frames	80
LoPro with switchable glass	93
Louvre mesh	113
Louvres	100-112
Low 6.4mm flat thresholds	18-19
MAB Elite series glass door locksets	156
MAB elite series glass door patch fittings	157
MAB floor springs	128-129
MAB gate closers	130
Magnetic frame seals	13
Magnetic meeting stile seals	42
Manual flush bolts	222-223, 227
Master keyed cylinders	146
Mazak flush bolts	223
Mechanical pushbutton locks	148
Medium duty door stays	207
Meeting stile seals	39-43, 45, 55
Mega extended sill sweep	34
Mesh	113
Metal casement window seal	46
Metal door smoke seal	62-65
Metal louvres	100-112
Metal vision frames	74-93
Millenium push & pull exit devices	182-183
Mineral fibre glazing products	88-90, 98
Mini teardrop seal	64-65
Minipad 423 emergency exit devices	176-177
Ministar 429 panic exit devices	174-175
Modular rain drip	47
Modular ramps	32
Modular thresholds	19, 30-32
Monitoring contact	149
Monkey fur seals	61
Monkey tail bolt	229
Mortice ball catch	143
Mortice door stays	203, 207
Mortice indicator bolt	165
Mortice lock cases	136-143
Mortice panic exit devices	180-181, 194-195, 198
Mounting brackets, Zero frame seals	13
Multi-point locks	140-141
Multi-power door closers	124-127
Narrow stile locks	142
Negative pressure seals	49-51
Nemef lockcases	138-140, 142
Non-fire rated glass	94
Non-fire rated glazing tape	96-97
Non-slip thresholds	25, 30-31
Non-vision louvres	100-112
Nose cone seals	59
Nylon saddle washer	219
O Rod	228
OEM pattern dropseal	7
Offset thresholds	27
Outside access devices	174-201
Oval cylinders	146
Oval cylinder pull	161
Oval doorstop	216
Overhead door closers	123-127
P Rod	228
P seals	67
Padlock bolts	229, 231
PAM21 outside access devices	180-181
Panic bolt signage	173
Panic counter lock	180-181
Panic exit hardware	174-201
Panic locks	139-141
Part E acoustic seals	54
Pass group cylinders	146-147
Patch fittings	156-157
Patch keep	156

ITEM	PAGE
Peelable replacement seal	69
Pencil type door contact	149
Perforated security grilles	107
Photo-luminescent thresholds	31
Photo-luminescent signs	173
Piano hinges	118-119
Pile brush seals	61
Pipe stop & holder	215
Pivot sets	70
Plain ring gate latch	229
Plain spindles	161
Plain thresholds	18-21
Plastic transfer contacts	154
Pneumatic flyscreen closers	123
Pocket sliding door gear	248-249
Polycarbonate	94
Portholes	87-92
Positive pressure seals	49-51
Power adjustable door closers	124-127
Power adjustable floor springs	128
Power supply units	149
Power transfer units	150-154
Pressure relief dampers	107
Pressure seals	49-51, 63-67
Privacy door latch	144
Privacy vision panels	93
Project hinges	116
Proquinter spring hinges	121
Proquinter stainless steel gate fittings	230-231
Proquinter stainless steel locks	143
Proximity keypads	149
PSA seals	17, 45-46, 61-67, 72-73
PSU	149
Pull handle & plate sets	162-164
Pull handles	162-164
Pullman latch panic bolts	174-179, 182-192, 194-195, 197-201
Push bar exit devices	174-175, 178-186, 188-194, 198-201
Push bar to open signs	173, 188, 199, 201
Push button locks	148
Push-in door silencers	55
Push-in seals	38, 69
Push pad emergency exit devices	176-177, 186, 200-201
Push pad operated mortice night latch	195
Push pad operated rim latch	176, 195, 198
Push plates	162, 164
PVC break thresholds	24
PVC foam glazing tapes	90, 96
PVC poly pile seals	44
PVCu door concealed restrictor	203
PVCu door stay bracket	211
PVCu renovation seals	69
Pyroguard T E60/8 glass	83, 90, 95
Pyroshield 2 glass	83, 90, 95
R Rod	228
Rabbeted thresholds	22-23
Racetrack vision frames	84
Rack bolt	147
Rain deflectors	35, 47
Rain drips	35, 47
Ramps	32-33
Rebate catch	133
Receiver staple	229
Recoil pattern door stays	204-207, 209, 210
Rectangular flush pulls	161
Refuge point sign	172
Relatching device	181, 188
Reliance door holders	203
Remote proximity door viewer	166
Rescue hardware	70
Restorix Torx pin security screws	114
Retrac sliding door gear	246-247, 250-253
Ribbed neoprene seal	36
Rim cylinders	146, 196
Rim panic exit devices	174-175, 184-185, 196-197
Rim panic latch	174-175, 184-185, 196-197
Roller arm door co-ordinator	131
Roller blind finger protection	236
Roller seals	58
Roller shutter bumper strip	58
Roller shutter seals	58-60
Round cylinder pull	163
Round edge guard	71
Round rubber buffer	216
Round vision frames	83, 87-92
Rubber carpet dividers	29
Rubber door bottom	36

ITEM	PAGE
Rubber door buffers	216
Rubber door stops	165, 213-216
Rubber ramps	33
Rubber silencers	55
Rubber Traction Tread	31
Rubber wiper seals	57
Running man signs	172
RUZT stays	211
Safe haven seals	49
Safety glass	83, 90, 95
Safety signage	170-173
SBLs acoustic louvres	112
Scored seals	48
Scored teardrop seals	48
Screw driver insert bits	114, 234
Screw in cylinders	146
Screws	114, 234
Security astragals	159
Security bolts	122, 147, 229, 231
Security continuous hinges	118-119
Security cowl	169
Security cylinder	145
Security door stops	215
Security fasteners	114
Security glazing butyl	68
Security hinges	115
Security louvres	105, 107
Security screws	114
Security strips	158
Security tags	226
Security vision frames	85
Secustrip	158
Segmented vision frames	84
Selectors	131-135
Self-adhesive brush pile	61
Self-adhesive glass door seals	45
Self-adhesive glazing tapes	66-67, 96-98
Self-adhesive intumescent seals	71-73
Self-adhesive pile brush seal	61
Self-adhesive seals	17, 45-46, 61-67, 72-73
Self-adhesive smoke seal	62-65
Self-adhesive tape pack	234
Self-attaching letter plates	168-169
Self-attaching vision frames	74-93
Self-latching flush bolts	225
Self tapping screw pack	234
Series ALD modular rain drip	47
Setting blocks	99
Sex bolts	163
Sex symbols	171
SG security vision frames	85
Shear screws	197
Shop front transom closer	123
Shower thresholds	21
Shutter hinge	230
Shutter seals	58-59
Side load arm	123
Side load bottom pivot	123
Signage	170-173
Silicone cold smoke seals	62-65
Silicone fin seals	63
Silicone glazing channels	97
Silicone seals	38, 62-65, 68-69
Silicone teardrop seals	64-65
Sill sweeps	34-37, 56-60
Simplex digital locks	148
Single cylinder	146-147
Single post door holder	218
Single sided glazing tapes	96
Skeleton flush bolts	222-223
Sleeved intumescent strips	71
Sleeved letter plates	168-169
Slide channel door closers	125
Sliding arm gate closer	130
Sliding bolt	221, 231
Sliding door dropseals	9
Sliding door gear	238-261
Sliding door lockcases	138, 143
Sliding door seals	56
Sliding wardrobe gear	238-243, 256-257
Slim knuckle hinge	115
Slimline magnets	149
Slimport acoustic vision frame	92
Slimport STC	92
Slimports for walls	87
Slimport vision frames	88-92

ALPHABETIC INDEX

ITEM	PAGE
Slimscope door viewers	166
Slimscreen privacy visions	93
Smoke seals	10-11, 62-65
Snake eye security screws	114
Soffit mounted co-ordinator	134
Soft close system	238-241
Soft puff intumescent	73
Sound block louvre systems	112
Sound rated louvre	112
Sound seals	4-17, 22-23, 39-43, 52-54, 64-65
Sound trap seals	52-54
SP Slimports	88-92
Spindle conversion kit	161
Spindles	161
Spindles sleeve pack	161
Spined security bolt	147
Split follower locks	138-142
Split spindles	161
Sponge seals	38, 66-67, 96-98
Spring bolts	221
Spring for door stay	209
Spring hinges	121
Spring loaded doorstops	214
Spring loaded transfer contacts	154
Spring recoil stays	204-207, 209
Spring seals	46
Square & rectangular vision frames	74-82, 85-86
Stainless steel astragals	159
Stainless steel coat hooks	165
Stainless steel continuous hinges	119
Stainless steel cylinder shroud	160
Stainless steel door furniture	160-165
Stainless steel door stays	210
Stainless steel door stops	165, 213, 215
Stainless steel entrance pull handles	163
Stainless steel escutcheons	160
Stainless steel flush bolts	227
Stainless steel gate fittings	230-231
Stainless steel hinges	115-121, 230
Stainless steel indicator bolts	165
Stainless steel letter plates	169
Stainless steel lever action flush bolts	227
Stainless steel lever handles	160
Stainless steel locks	143
Stainless steel louvres	104
Stainless steel mesh	113
Stainless steel power transfers	151
Stainless steel pull handles	162-164
Stainless steel signs	170-171
Stainless steel thresholds	20, 33
Stainless steel vision frames	74-93
Stainless steel waste bezels	155
Stainless steel weld-on hinges	120
Stainless steel woven wire mesh	113
Stainless steel yarn anti-static brush	59
Stamped louvres	107
Standard differ cylinders	147
STC seals	52-54, 92
Steel anti-jemmy strip	158
Steel door dog bolt	122
Steel louvres	100-112
Steel mesh	113
Steel security grilles	107
Steel window seals	46
Stock signage	170-173
Storm proof aluminium louvre	105
Straight sliding door gear	242-247, 250-255
Strap hinges	230
Strike plate brackets	13
Strip intumescent	71
Strip pattern coat hooks	165
Strong thresholds	33
Stud hinges	115
Suffolk latches	229
Surface fixing bevel dog bolt	122
Surface fixing door stay	202
Surface fixing indicator bolt	165
Surface mounted door loops	152, 154
Sweeps	34-37, 47, 56-57, 60
Swing door profile	55
Synthetic bearing hinges	117
T-Bar pull handles	163
Tamper proof door stops	215
Taylor's half spindle	161
Teardrop seals	64-65
Tee fin seals	63

ITEM	PAGE
Tee hinges	229-230
Tee section seal	58
Telescopic door stays	210, 211, 212
Telescopic door viewers	166-167
Telescopic letter plates	168-169
Template drilled hinges	115
TESA universal rim panic exit devices	191-193
Thermal break thresholds	24
Threaded rod	228
Three knuckle butt hinge	116
Three pin transfer contacts	154
Thresholds	18-33
Threshold connectors	30
Threshold dust proof strike	228
Timber door dog bolt	122
Toilet signs	171
Top centres	123, 131
Top hat buffer	216
Top pivots	123, 129
Top rod extension kit	199, 201
Torpedo prison stop	217
Torx pin security screws	114
Touch 445 panic exit devices	178-179
Touch bar exit devices	178-179, 182-183, 198-199
Toughened glass	94
Tower bolts	231
Traction tread thresholds	31
Transition thresholds	26-28
Transom closers	123
Tread plate thresholds	29
Triple flipper seal	36
Truncated machine screws	115
Tubular rebate catch for selector	135
Two pin transfer contacts	154
Type F fire seal	71
Type SM fire & smoke seal	71
U-shaped seal	97
UL Listed co-ordinators	131-135
UL Listed power transfers	151, 154
Under door seals	34-37, 56-57
Universal co-ordinators	135
Unwashed stainless steel hinge	117
V3 full body strength threshold	33
Vandal resistant door loop	152
Vandal resistant door stops	217
Vermis mesh	113
Vision frames	74-93
Wall fixing doorstops	165, 213, 216
Wallports	87
Wardrobe sliding door gear	242-243
Wedge type door selectors	131-133, 135
Weld on hinges	120
Welded mesh	113
Wheelchair ramps	32
Wheelchair shower threshold	21
Wheeled leaf door selector	131
Wide angle door viewer	166
Windstorm flush bolt	222
Window stays	211
Windows for doors	74-93
Wiper seals	57
Wire pattern coat hooks	165
Wired safety glass	83, 90, 95
Wooden frame seals	69
WoodPro vision frames	86
Workplace signage	170-173
Worktop waste bezels	155
Woven wire mesh	113
Wrap around seals	58
Yale-Chubb security hinge bolt	122
Z&L bracket set	149
ZAG anti-ligature gasketing	48
Zamak flush bolts	223
Zero acoustic frame seals	10-17, 52-55, 64-65
Zero adjustable frame seals	10
Zero air control systems	49-51
Zero anti-bacterial finger protection	237
Zero anti-ligature gasketing	48
Zero anti-slip thresholds	25, 30-31
Zero aperture liners	89-90, 99
Zero astragals	159
Zero automatic door bottoms	4-9
Zero biowall finger protection	237
Zero budget frame seals	16-17
Zero bulkhead thresholds	23, 29, 30
Zero butt thresholds	26-28

ITEM	PAGE
Zero carpet divider thresholds	28-29
Zero checker plate thresholds	29
Zero cold smoke seal	63-65
Zero Compress-O-Matic frame seals	11, 50-51
Zero cushion seals	46
Zero Dade County seals	49
Zero diamond plate thresholds	29
Zero door bottoms	4-9
Zero dropseals	4-9, 49-51, 52-53
Zero dropseal end caps	9
Zero epoxy abrasive thresholds	25, 30, 31
Zero expansion joint threshold	29
Zero fin seals	63
Zero finger protection strips	236-237
Zero Flo option seals	8, 36
Zero frame seal brackets	13
Zero frame seals	10-17, 38-43, 46, 49-54, 61-65
Zero full body strength thresholds	33
Zero fully adjustable frame seals	10
Zero glass door seals	45
Zero Glowtraction tread	31
Zero high 12.7mm flat thresholds	20-21
Zero hurricane seals	49
Zero interlocking ramps	32
Zero interlocking watershed	47
Zero intumescent	73-74, 99
Zero intumescent aperture liners	89-90, 99
Zero intumescent frame seals	12, 72
Zero intumescent hinge pads	72
Zero intumescent lock pack	72
Zero kerf frame seals	38
Zero keyed cylinders	146
Zero latchtrack thresholds	22, 23
Zero lockcases	136
Zero locking nut	5
Zero low 6.4mm flat thresholds	18-19
Zero magnetic frame seals	13
Zero meeting stile seals	39-43
Zero modular ramps	32
Zero modular thresholds	19, 30-32
Zero mounting brackets	13
Zero non-slip thresholds	25, 30-31
Zero Part E acoustic seals	54
Zero photo-luminescent thresholds	31
Zero pressure seals	49-51, 64-65
Zero PVC polypile seals	45
Zero rabbeted thresholds	22-23
Zero rain drips	35, 47
Zero rubber carpet dividers	29
Zero rubber ramps	33
Zero rubber traction tread	31
Zero safe haven seals	49
Zero self-adhesive glass door seals	45
Zero self-adhesive intumescent seals	72
Zero sill sweeps	34-37
Zero sliding door seals	8
Zero smoke seal	63-65
Zero sound trap seals	52-54, 64-65
Zero spring seals	46
Zero stainless steel thresholds	20, 33
Zero STC seals	52-54
Zero teardrop seals	64-65
Zero thermal barrier thresholds	24
Zero thresholds	18-33
Zero traction tread thresholds	31
Zero transition thresholds	26-28
Zero tread plate thresholds	29
Zero under door seals	36-37
Zero V3 full body strength thresholds	33
Zero wheelchair ramps	32
Zero wheelchair shower threshold	21
Zero ZAG seals	48
Zflex concealed door loops	153

NUMERIC INDEX

REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE
1/45/xx	56	98A-PSA	45	325HO-SS	124	475AA	11, 49, 51, 53	625A	24	1413AP.SE	197
1/90/xx	56	99A	16, 41	325VP/F	124	477AA	35	626A	24	1413/KE.SE	196, 200, 201
1/180/xx	56	100A	17, 41	325VP/F/BC	124	477AA/EC	35	627A	23	1413/LE.SE	196, 200, 201
2/45/xx	56	102A	19, 27	325VP/T	124	478AA	11	628A	23	1413EP.ZP	197
2/90/xx	56	102A-E	25	325VP/T/BC	124	485AA	11	639WA	34	1413/310.ZP	197
2/180/xx	56	103A	19, 27	326AA	11, 40	485AA-ZAG	48	643A	26	1413-NC/KE.SE	196, 200, 201
3/45/xxx	56	103A-E	25	328AA	14, 34, 40, 49	486N	22, 23	653A	20	1413-NC/LE.SE	196, 200, 201
3/90/xxx	56	104A	19, 27	328AA-ZAG	48	488FS	68, 72	654	134	1438M.R.SE	195, 200
3/180/xxx	56	104A-E	25	328FSAA	12	488S	65	654A	20	1438.R.SE	195, 200
4/45/xxx	56	105A	30	328SPB	13	511A	37	654A-V3	33	1545A	28
4/90/xxx	56	106A	30	329AA	34	516VP/F	124	654B	20	1545B	28
4/180/xxx	56	110A	37	339AA	34, 39	516VP/F/BC	124	655A	20	1673A	28
4B	46	111A	36	339WAA	34, 39	516VP/T	124	655A-V3	33	1673A-E	25
4Z	46	118B	46	350AA	5, 6	522A	24	655B	20	1674A	28
5/45/xxx	56	119B	46	351AA	5, 6	523A	27	656A	20	1674A-E	25
5/90/xxx	56	119WB	46, 49, 53	352AA	5, 6	524A	23	656A-V3	33	1675A	28
5/180/xxx	56	121.APH	127	355AA	5, 7	525A	24	656B	20	1675A-E	25
5B	46	121CE	127	355AA-FLO	8	526A	24	657A	21	1682A	28
5Z	46	131-SES	125	360AA	5, 7	539AA	34	657A-V3	33	1682B	28
05-xxxx/BLK	67	133	44	361AA	5, 7	544A	18	663A	28, 29	1684A	28
6/45/xxx	56	134	44	362AA	5, 7	544A-E	25	664STST	20	1685R	29
6/90/xxx	56	135PVC	44	363N	5	544A-V3	33	669DP-A	29	1686R	29
6/180/xxx	56	136PVC	44	364AA	5, 7	545A	18	669DP-S	29	1771S-BLK	63
10/30F/x	71	137PVC	44	364FS-AA	8	545A-E	25	669DP-STST	29	1772S-BLK	63
10/30SM/x	71	137P-xx-PSA	61	364LS-AA	8	545A-V3	33	670 SERIES	29	1773S-BLK	63
10/30SF/x	71	138PVC	44	365AA	5, 7, 51, 53	545B	18	671 SERIES	29	1777S-BLK	63
10/30DF/x	71	139A	15, 39, 49	365FS-AA	8	546A	18	672A	19, 29, 30	1981 DC	117
11A	47	140A	15, 39	365LS-AA	8	546A-E	25	672A-E	25, 30	1981 GC	117
12A	107	141.xxxx/xxx	66, 97	365N	5	546A-V3	33	673A	19, 29, 30	2000	127
12-xxxx AA	107	141A	5, 47	366AA	5, 7	547A	18	673A-E	25, 30	2000.APH	127
15/30F/x	71	141AA/EC	47	367AA	5, 7, 53	547A-E	25	674A	19, 30	2003	127
15/30SM/x	71	141AA/EC-EXT	47	368AA	5, 7	547A-V3	33	674A-E	25, 30	2003V	127
15/30SF/x	71	142A	47, 49	369AA	5, 7	548A	18	675A	19, 30	2004	127
15/30DF/x	71	153A	36	370A	13, 42	548A-E	25	675A-E	25, 30	2013	244, 256
18B	46	153A-FLO	36	372.SE	195, 200	555AA	40	676A	19, 30	2019	244, 246
19B	46	154A	37	372M.SE	195, 200	555FSAA	40	676A-E	25, 30	2203	238, 239
19WB	46	155AA	40	372.P.SE	195, 200	557AA	40	678A	19, 30	2213	238, 239
20/60F/x	71	156AA	40	372M.P.SE	195, 200	557FSAA	40	678A-E	25, 30	2200	238, 239
20/60SM/x	71	164A	20	375AA	13, 42	560A	22	712AA	10	2210	238, 239
20/60SF/x	71	168A	30	376/003.ZP	197, 200	561A	23, 49	750	128	2137	238, 239, 240
20/60DF/x	71	170AA	10	376/330/00	173, 199, 200, 201	561.SES	198, 201	752	128	2147	238, 239, 240
31AA	17	175A	26	376/931M.SE	197, 200	563A	23	755	128	2135	238, 239, 240
32AA	17	175B	26	376AA	15	564A	22, 49, 51, 53, 54	770AA	10, 53	2180	238, 240
33AA	17	188S-xx-ZAG	48	376ELTS.SE	197, 200	564B	22	770FSAA	12	2181	238, 240
34AA	41	188BIO-ZAG	48	376FFKP.ZP	197, 200	565A	23, 51	770SP	10	2182	238, 240
34P-xx-PSA	61	188FS/ZAG	48	376MDS.ZP	197, 200	566A	22	770SPB	13	2320B.T-SES	125
35AA	41	188S	54, 65	376M.SE	194, 200	566.AK	199, 201	770STST	10	2320B.T.S-SES	125
36AA	41	188FS	68, 72	376M.P.SE	194, 200	566A-ADA	22	816.PB	196, 200	2321B.T-SES	125
38AA	41	231P-xx-PSA	61	376.P.SE	194, 200	566B	22	842	224	2321B.T.S-SES	125
39A	34	232A	32	376.SE	194, 200	566.DK.BM	199	845	225	2361AA	32
39WA	34	233A	32	377M.SE	200	566.DK.SE	199, 201	857	244	2673A	31
44STST	39	234A	32	377M.P.SE	200	568A	22	858	244	2673A-E	25, 31
47A	30, 39	235A	32	377.P.SE	200	570AA	11	862/962	226	2673A-L	31
50AA	14	236A	32	377.SE	200	571AA	37, 41	870AA	10, 49, 51	2676A	31
50MA	34	237A	32	378/316.SE	197, 200	571.1.SES	198, 201	870SPB	13	2676A-E	25, 31
51A-90	237	238A	32	378DDS.SE	197, 200	571.2.SES	198, 201	871AA	15, 37, 42	2676A-L	31
51A-180	237	253A	36	378MDS.SE	197, 200	573.N.1.SES	198, 201	873AA	42	2720BD.T.S-SES	125
52A	36	253A-FLO	36	378M.R.SE	194, 200	573.N.2.SES	198, 201	905A	30, 39	2721BD.T.S-SES	125
53A	36, 43	253FSA	37	378.R.SE	194, 200	574.AS.L.SE	199, 201	910AA	118	2701	252
55AA	40	254A	37	379M.N.SE	194, 200	574.AS.R.SE	199, 201	910DBAA	118	2702	248
55FSAA	40	255AA	37	379MDS.SE	197, 200	574.S.SE	199, 201	942	224	2703	248
56AA	40	259R	33	379.N.SE	194, 200	574.STE.BM	199, 201	945	225	2704	248
56FSAA	40	265A	22	380-0110	68	574.STP.BM	199, 201	951	237	2705	252
58FSAA	12	267A	23	380-0310	68	574.V.SE	199, 201	970STST	119	2713	250
59FSA	37, 43	268A	29, 30	380-0410	68	574.VS.L.SE	199, 201	970ZP	119	2717	252
63A	18	269A	30	381A	36, 43	574.VS.R.SE	199, 201	971AA-BIO	237	2721	252
63A-E	25	270A	14	381A-FLO	36	576.AK	199, 201	972AA-BIO	237	2725	250, 252
64A	18	272A	14	383AA	39, 53	576.DK.BM	199	973AA-BIO	237	2727	252
64A-E	25	304A	26	383FSAA	39	576.DK.SE	199, 201	974AA-BIO	237	2737	250
65A	22	312A	15	388S	65	576.RE.BM	199	1010 SENIOR	203	2743	252
68A	30	314AA	15	389M.N.SE	195, 200	576.RE.SE	199, 201	1012 JUNIOR	203	2753	252
69A	30	318AA	14	389.N.SE	195, 200	579A	23	1110.APH	126	3000 SERIES	148
70B	26	318AA-ZAG	48	398V	43	581.SE	198, 201	1120B	126	3056FSAA	43
72A	36	320AA	5, 6	399V	43	582	218	1120B.C	126	3066	242
76B	26	321AA	5, 6, 49	452A	36	600D-PC	134	1130.APH	126	3103	242
80B	26	322A	14, 39	469A	30	622A	27	1130.B	126	3106	242
84R	29	323AA	5, 6	470AA	14	623A	27	1130.B.C	126	3119	242
98A	16, 35, 41	325HO-BLK	124	472AA	14	624A	24	1370A	15	3370.2	254, 258



NUMERIC INDEX

REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE
3370.3	254, 258	6710A	19, 30	101513	121	1930908NN	192	BARH0900x	193	FIR9278	83, 95
3371	246	6710A-E	25, 30	101517	121	1950908NN	192	BARH1400x	193	FIR9323	90, 95
3386	244, 246, 256	7000 SERIES	204, 210	101542	121	195L908NN	192	BARV0900x	193	FIR9423	90, 95
3387	238, 240	7010	204, 210	102300	121	845253A	21	BARV1400x	193	FIR9430	83, 95
3450	246	7011	204, 210	102301	121	31251500PSA	73	BARV3050x	193	FIR9523	90, 95
3451	246	7012	204, 210	102305	121	3250500PSA	73	BFL-75	82	FLDL	109
3452	246	7013	204, 210	102309	121	40621750PSA	73, 90, 99, 111	BTB19	163	FLDL-W	109
3531	252	7014	204, 210	102313	121	40622125PSA	73, 90, 99, 111	BTB25	163	FLDL-W1	109
3546A	36	7100 SERIES	128	102329	121	810201000	168	BTB30	163	FP50	233
3546A-FLO	36	7115	128	102330	121	810202000	168	C	134	FP90	233
3551A/AA	5, 6	7125	128	102333	121	810301000	168	CB	134	FP120	233
3552A/AA	5, 6	7135	128	102336	121	810302000	168	CCN1040.00	185	FP5090	233
3552AA-FLO	8	7200 SERIES	136	102339	121	9157375PSA	90, 98	CCN1240.0Z	185	FP50120	233
3557FSAA	43	7350AA	9	110001	121	9157472PSA	98	CCN1246.0Z	185	FP9090	233
3594	252, 258	7700 SERIES	128	110002	121	9157590PSA	98	CCN2480.0Z	185	FP90120	233
3619	254, 258	7702	128	110005	121	9157787PSA	98	CCN2481.0Z	185	FP120120	233
3672A	31	7705	128	110036	121	9157984PSA	98	CCN2482.0Z	185	FS3003	73
3672A-E	25, 31	7770AA	10	110042	121	91572000PSA	98	CERA1900N	193	FS4004	73, 90, 99, 111
3672A-L	31	8004N	38	121117	121	9236375PSA	90, 98	CERLL1900	193	FS9009	90, 98
3673A	29, 31	8043N	38	150000	121	9236472PSA	98	CERB1900N	193	GC10/6	97
3673A-E	25, 31	8048S	38	150001	121	9236590PSA	98	CH01	114	GC16/6	97
3673A-L	31	8052N	38	150005	121	9236787PSA	98	CM1040.00	177	GDP-8MM	45
3674	244, 246, 252	8053Q	38	150029	121	9236984PSA	98	CM1240.0Z	177	GDP-10MM	45
3674A	31	8054S	38	150030	121	92362000PSA	98	CM1246.0Z	177	GDP-12MM	45
3674A-E	25, 31	8055S	38	150033	121	9782375PSA	90, 98	CM2480.0Z	177	GT-14	96
3674A-L	31	8056S	38	150036	121	9782472PSA	98	CM2481.0Z	177	GT-18	90, 96
3675A	31	8136	44	150039	121	9782590PSA	98	CM2482.0Z	177	GT-116	90, 96
3675A-E	25, 31	8137	44	190116	230	9782787PSA	98	CML1040.00	183	GT-132	90, 96
3675A-L	31	8138	44	190131	230	9782984PSA	98	CML1240.0Z	183	GWP/SIZE	95
3676A	31	8144S	49, 63	190136	230	97822000PSA	98	CML1246.0Z	183	GWP223	90, 95
3676A-E	25, 31	8144FS	72	190186	231	918071925	69	CML2480.0Z	183	GWP278	83, 95
3676A-L	31	8149AA	35	190188	231	918072925	69	CML2481.0Z	183	GWP323	90, 95
3683	254, 258	8150S-BK	63	190402	230	918074925	69	CML2482.0Z	183	GWP423	90, 95
3701	258	8191AA	35	190514	230	A0300.30.SAV	173, 188	CP1040.00	175	GWP430	83, 95
3702	258	8192AA	35, 43	190518	230	A0300.40.SAV	173, 188	CP1240.0Z	175	GWP523	90, 95
3703	258	8192A-PSA	45	190614	230	A110 HD xxx	118	CP1246.0Z	175	H1254.FR	116
3707	258	8193AA	16, 35, 42	191194	231	AB	134	CP2480.0Z	175	H164-76761105	117
3708AA	13	8193AA-PSA	45	191195	231	ABG/SIZE	94	CP2481.0Z	175	H164-89891105	117
3709AA	14	8194AA	35, 42	191212	231	AC8	129	CP2482.0Z	175	H164-89891125	117
3710	256	8194AA-PSA	45	191328	231	AC115	129	CS 1/xxx	57	H367-76763003	117
4000 SERIES	207	8195AA	17, 42	191416	230	AC233	157	CS 2/xxx	57	H367-89893003	117
4011	207	8195AA-PSA	45	191426	230	AC340	129	CS 3/xxx	57	H367-89893023	117
4012	207	8197AA	35, 47	191515	221	AC341	129	CS 4/xxx	57	HC-12	84
4013	207	8198AA	35, 47	191718	227	AC342	129	CS 5/xxx	57	HC-18	84
4014	207	8302AA	16, 54	191719	227	AC343	129	CS 6/xxx	57	HC-24	84
4200 SERIES	128	8303AA	16, 54	191721	231	AC344	129	CT1040.00	179	HCT-12	84
4225	128	8303AA-ZAG	48	192202	231	AC345	129	CT1240.0Z	179	HCT-18	84
4232	128	8305AA	15	192203	231	AC346	129	CT1246.0Z	179	HCT-24	84
4235	128	8361	5	192204	231	AC350	129	CT2480.0Z	179	HCTB-12	84
4242	128	8452A	21	192205	231	AC351	129	CT2481.0Z	179	HCTB-18	84
4245	128	8655A	20	193143	230	AC352	129	CT2482.0Z	179	HCTB-24	84
4400 SERIES	207	8724A	24	193145	230	AC353	129	D-xxxx/BLK	66	HD7000 SERIES	205
4411	207	8726A	21, 24	193147	230	AC354	129	DEG/A/xx	71	HD7010	205
4412	207	8729A	24	193171	231	AC360	129	DEG/B/xx	71	HD7011	205
4413	207	8800S	38	193240	230	AC361	129	DL01	114	HD7012	205
4414	207	8810S	38	193242	230	AC362	129	DL02	114	HD7013	205
5281	242	8841R	38	194090	231	AC363	129	DNP55	55	HD7014	205
5400 SERIES	137	8877AA	16, 54	194110	231	AC364	129	DNP60	55	HDS	69
5410.6	137	8878AA	16, 54	194112	231	AC365	129	DNP75	55	HDS-B	69
5420.6	137	8879AA	16, 42	194114	231	AC366	129	DRDL	106	HL0903 A	107
5430.6	137	8879AA-PSA	45	194120	230	AC375	129	DSFP	107	HL0906 A	107
5440.6	137	9000 SERIES	206	194125	230	AC384	129	DSFP-PERF	107	HL0909 A	107
5502	254	9011	206	194130	230	AC385	129	EDxxxx	146	HL1212 A	107
5521	254, 258	9012	206	194340	230	AC386	129	EKxxxxT	146	HM-CLIP	114
5550.6	137	9013	206	194350	230	AC392	129	EKxxxxx	146	H/PB/BLK	67, 97
5551	254	9014	206	194414	231	AC393	129	ESxx	146	HPL WR 0 xxx	120
5560.6	137	9015	206	194415	230	AC583	129	ESKxx	146	HPL WR 1 xxx	120
5581	254	9016	206	194420	230	ADK	146	FB	111	HPL WR A 150	120
5602	254	9017	206	198214	231	ADL	106	FB18-5/8	134	HPL WR SM xxx	120
5831AA	17	9018	206	199042	143	AFDL	101	FB42-5/8	134	HPL WR SS xxx	120
5831FSAA	12	9131-PSA	44	199043	143	AFDL.44	101	FBLS	111	HTS	69
5832AA	17	9137-PSA	44	199050-8	143	AFDL.44-SS	104	FDLS	103, 111	INTRA.90	248, 249
5832FSAA	12	9260.SS	196, 200, 201	199051	143	AFDL-N	102	FDLS-SS	104	K.20	242
5833AA	17	10288 D	117	199053	143	AFDL-W	102	FGS-75	82	K.30	242
6100 SERIES	138	10288 G	117	199055	143	AFDL-W1	102	FGS-IS	82	K.150	254
6570A	21	91807	69	199056	143	AL134PSA	99, 109	FIR5/SIZE	95	K.300	254
6575A	21	101142	121	199057	143	AL218PSA	99, 109	FIR9/SIZE	95	KCE	181
6600 SERIES	139	101509	121	1910908NN	192	ALD-Axxxx	47	FIR9223	90, 95	KISO 05	67

NUMERIC INDEX

REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE
KISO 141	66, 97	N4014	207	NHD7000 SERIES	205	SB12.xxxx	99	V330	156	Z66	229
KISO 380	68	N4411	207	NHD7010	205	SBLS	112	V340	156	Z68	229
KISO D	66	N4412	207	NHD7011	205	SCT1	226	V500	157	Z80	228
KISO H/PB	67, 97	N4413	207	NHD7012	205	SE01	114	V501	157	Z81	228
KISO L	67	N4414	207	NHD7013	205	SE02	114	V502	157	Z82	228
KISO P	67	N5641	137	NHD7014	205	SE03	114	V508	157	Z102-Z	203
KSC	238	N5642	137	NK PAR.40	256	SE04	114	V522	157	Z103	213
KSL	146	N5761	137	NK 45	244	SE05	114	V523	157	Z104	213
KSB 25017 SS	227	N5762	137	NK.50	246	SE10	114	V525	156	Z105ST	202, 210
KSB 25020 SS	227	N9000 SERIES	206	NK.80	244	SERIES 670	29	V525-5.12	156	Z105-Z	202
L-0312/BLK	67	N9011	206	NPM1620502	181, 188	SERIES 671	29	V527	156	Z106	213
L-662	134	N9012	206	NPM1620502 MIC	188	SFL	109	V750	156	Z107.1	212
LAM/SIZE	94	N9013	206	NPM162050201	188	SFLS	109	VX7729/160	116	Z107.2	212
LAM/F/SIZE	94	N9014	206	NPM162050203	188	SG-10	85	VX7729/100	116	Z107/RUZXxx	211
LAM223	90, 94	N9015	206	NPAM110005	181, 188	SG-12-LSC	85	VX7611/3D	116	Z107/L	211
LAM223/F	90, 94	N9016	206	NPAM26000100	186	SIMPLEX 3000	148	WOODPRO	86	Z107/CLINCHPIN	211
LAM278	83, 94	N9017	206	NPAM26000112	186	SIMPLEX 7100	148	WWB.1	155	Z107/PVCU	211
LAM323	90, 94	N9018	206	NPAM26000200	181, 186, 188	SLID INTRA.90	248	WWB.3	155	Z108.x	204, 210
LAM323/F	90, 94	N0180044800	176, 178	NPAM26000201	186, 188	SLID LATERAL.90	252	WWK.1	155	Z108/PACK	204
LAM423	87, 90, 94	N0240001000	188	NPAM26000212	186	SLID LATERAL.130	252	WWK.2	155	Z108HD.x	205
LAM423/F	87, 90, 94	N0240002000	188	NPAM26000312	186, 188	SLID TOP.130	250	WWL.1	155	Z108HD/PACK	205
LAM430	83, 94	N0240003000	188	NPAM26000314	186, 188	SN	181	WWL.3	155	Z109.xZ	209
LAM523	90, 94	N0342900000	187	NPAN330007	181, 188	SOPSECUNM	193	XL-668	134	Z109/PACK	209
LAM523/F	90, 94	N0342900050	187	NPN8200165	181, 188	SP81/NP	131	Z001	223	Z109/SPRING	209
LITE+	238	N0342900100	187	NPN8201165	181, 188	SP250.40-xx	90	Z002	228	Z110.1	213
LO-FP-12	83	N0342900200	187	NX-644	134	SP250.44-xx	90	Z003R	222	Z110.2	213
LO-FP-18	83	N0440000000	188	NZ108HD.x	205	SP250.50-xx	90	Z003R/BULLET	228	Z111F	218
LO-FP-AA1-12	83	N0441906000	188	NZ108HD/PACK	205	SP250.54-xx	90	Z003R/ROD	228	Z111P	218
LO-FP-AA1-18	83	N0444000000	188	NZ140.x	207	SP350.40-xx	90	Z004	224	Z112P	218
LO-FP-BB1-12	83	N0444001000	188	NZ140/PACK	207	SP350.44-xx	90	Z005	224	Z113	203
LO-FP-BB1-18	83	N0444002000	188	NZ144.x	207	SP350.50-xx	90	Z006R	222	Z114	203
LOPRO	75	N0444004000	188	NZ144/PACK	207	SP350.54-xx	90	Z007	227	Z115.1	216
LOPRO-CS	84	N0444005000	188	NZ190.x	206	SP435PARTA-GV	91	Z008	223	Z115.2	216
LOPRO-CS-HC	84	N0444006000	188	NZ190/PACK	206	SP435.W.100.xx	87	Z009.2/N	223	Z115.3	216
LOPRO-CS-HCT	84	N0444400000	187	O.ROD	228	SP435.W.150.xx	87	Z011	228	Z115.4	216
LOPRO-CS-HCTB	84	N0444401000	187	OD3535	146	SP450.40-xx	90	Z012	228	Z115.5	216
LOPRO-CS-QR	84	N0444402000	187	OD4040	146	SP450.44-xx	90	Z013	228	Z115.6	216
LOPRO-CS-QR1C	84	N0444403000	187	OK3535T	146	SP450.50-xx	90	Z014	228	Z115.7	216
LOPRO-CS-QR2C	84	N0444404000	187	OK4040T	146	SP450.54-xx	90	Z015	226	Z115.8	216
LOPRO-CS-QR4C	84	N0444400000Z	187	OS45	146	SP550.44-xx	90	Z016	225	Z115.9	216
LOPRO-IS	76, 77, 93	N0444400000ZS	187	P.ROD	228	SP550.50-xx	90	Z017	225	Z115.10	216
LOPRO-K	81	N0448008000	188	P635/17	142	SP550.54-xx	90	Z018R	222	Z115.11	216
LOPRO-R	84	N4230600100Z	186	P636/17	142	SP250-STC-GT	92	Z020MT	229	Z116.1	212
LOPRO-RC	84	N4230600200Z	186	P1205/17	142	SP350-STC-GT	92	Z021BH	229	Z116.2	212
LOPRO-RD	84	N4290600000	186	P9600/17	142	SP450-STC-GT	92	Z035	216	Z117.1	210, 212
LOPRO-SC	85	N4290600100 MIC	186	P-5509/xxx	67	SP250-STC-FS	92	Z0127	70	Z117.2	210, 212
LOPRO-STC	80	N4290600200 MIC	186	PAM210003	180, 181, 190	SP350-STC-FS	92	Z0128	70	Z118	212
LOPRO-SS	81	N4450532000	186	PAM210004	180, 190	SP450-STC-FS	92	Z0582	229	Z119F	218
LOPRO WOODPRO	86	N4450564000	186	PAM210005	180, 190	SP4189	69	Z0584	229	Z120-EG	212
LP01	114	N4450584000	186	PAM210006	180, 190	SP4246	69	Z1A	229	Z120-SS	210, 212
LP02	114	N4450584000 MIC	186	PAM210007	180, 181, 190	SP4289	69	Z2A	229	Z120T	229
MCE	181	N4450511000	186	PCE	181	SP4314	69	Z3DSES48	145	Z124F	218
MCI	181	N4450511000 MIC	186	PL.150	258	SP4384	69	Z3DSEDxx	145	Z124P	218
MDC	181	N4450513000	186	PLSL	105	SP4385	69	Z3DSETxx	145	Z125	219
ME620G	130	N4450513000 MIC	186	POL/SIZE	94	SRDL	105	Z19C/xxx-BB-SS	163	Z130	203
ME650G	130	N4569065090	188	PVC-BREAK	24	SS1032FR.1	93	Z19C/xxx-BT-SS	163	Z135F	219
ME680G	130	NF160/F	189	QR-6	84	SS1032NFR.1	93	Z19G/xxx-BB-SS	163	Z135P	219
MESH01	113	NF160/LF	189	QR-9	84	SS1616FR.1	93	Z19G/xxx-BT-SS	163	Z136	123
MESH02	113	NF160/MF	189	QR-12	84	SS1616NFR.1	93	Z19S/xxx-BB-SS	163	Z140.x	207
MESH03	113	NF9300	190	QR1C-6	84	SSN	181	Z19S/xxx-BT-SS	163	Z140/PACK	207
MESH04	113	NF9302	190	QR1C-9	84	T1/xxx/xx	59	Z20/4S	229	Z144.x	207
MESH05	113	NF9302/2	190	QR1C-12	84	T2/xxx/xx	59	Z24-1870	227	Z144/PACK	207
MESH06	113	NF9302/3	190	QR2C-6	84	T3/xxx/xx	59	Z25C/xxx-BB-SS	163	Z145F	219
MK	146	NF9303	190	QR2C-9	84	T4/xxx/xx	59	Z25C/xxx-BT-SS	163	Z145P	219
MMODMBT5NE	193	NF9501xxx	189	QR2C-12	84	TE540 3D	116	Z25G/xxx-BB-SS	163	Z155F	219
MMODPBT5NE	193	NF9510	189	QR4C-6	84	TE540 5Z	116	Z25G/xxx-BT-SS	163	Z155SP	219
MMODMBT5GR	193	NF9525	189	QR4C-9	84	TOUCH 445	179	Z25S/xxx-BB-SS	163	Z160F	220
MMODPBT5GR	193	NF9821	190	QR4C-12	84	TU1040.00	192	Z25S/xxx-BT-SS	163	Z160P	220
MMODMBT5SAT	193	NF9840xxx	189	R3/45/xx	57	TU1240.0Z	192	Z30C/xxx-BB-SS	163	Z165F	220
MMODPBT5SAT	193	NF9841xxx	189	R3/90/xx	57	TU1241.0Z	192	Z30C/xxx-BT-SS	163	Z165P	220
MS	181	NF19209	189	R3/180/xx	57	TU1246.0Z	192	Z30G/xxx-BB-SS	163	Z170F	220
N-634	134	NF19210	189	RC	146	TU2480.0Z	192	Z30G/xxx-BT-SS	163	Z170P	220
N1805	221	NF19212	189	RM	146	TU2481.0Z	192	Z30S/xxx-BB-SS	163	Z175F	220
N1815	221	NF19309	190	RT01	114	TU2482.0Z	192	Z30S/xxx-BT-SS	163	Z175P	220
N1825	221	NF19310	190	RT02	114	TUF/SIZE	94	Z35G/xxx-BB-SS	163	Z190.x	206
N4011	207	NF19312	190	RT03	114	V3	33	Z35G/xxx-BT-SS	163	Z190/PACK	206
N4012	207	NF19700	190	RT04	114	V017	156	Z49	9	Z260	229
N4013	207	NF19720	190	RT10	114	V310	156	Z63ST	33	Z280	150



NUMERIC INDEX

REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE	REF	PAGE
Z281	150	Z905.1	162	Z6105	138	ZBS9	172	ZFS18S	217	ZLP	213
Z301.xxx	131	Z905.1BB	162	Z6106	138	ZBS10	172	ZFS19	172	ZLP01-xx	169
Z302	131	Z905.1CF	162	Z6107	138	ZBS11	172	ZFS22	173	ZLP02-xx	169
Z303	135	Z905.2	162	Z6108	138	ZBS12	172	ZFS23	173	ZLP03-xx	169
Z304.1/xxx	133	Z905.2BB	162	Z6109	138	ZBS13	172	ZFS24	173	ZLP06-xx	168
Z304.2/xxx	133	Z905.2CF	162	Z6600 SERIES	139	ZBS14	172	ZFS25	173	ZLP10	169
Z304.6	133, 135	Z905.3	162	Z6602/31	139	ZBS15	172	ZFS27	173	ZLP11	169
Z304.8	133, 135	Z905.3BB	162	Z6622/31	139	ZBS16	172	ZFS42	172	ZLP44-xxx	72
Z335	215	Z905.3CF	162	Z6642/31	139	ZBS17	172	ZFS43	172	ZM7010	149
Z345	215	Z905.8	162	Z7104	148	ZBS18	172	ZFS44	172	ZM7011	149
Z370	215	Z905.8F	162	Z7106	148	ZBS19	172	ZFS45	172	ZMBR008	149
Z390	215	Z905.9	162	Z7200 SERIES	136	ZBS20	172	ZFS112	170	ZMBR089	149
Z415G	141	Z906.1	165	Z7210.xxx	136	ZBS21	172	ZFS114	170	ZP204	168
Z440	215	Z906.2	165	Z7220.xxx	136	ZBS22	172	ZFS116	170	ZP207	168
Z460B	166	Z906.3	165	Z7230.xxx	136	ZBS23	172	ZFS118	170	ZPDL	144
Z460R	215	Z906.4	165	Z7250.xxx	136	ZBS24	172	ZFS119	170	ZPGT-xxxx/DS	87, 90, 96
Z462B	166	Z906.5	165	Z8900-Z	226	ZBS25	172	ZFS120	170	ZPGT-xxxx/SS	96
Z463B	166	Z906.6	165	Z9600 SERIES	142	ZBS26	172	ZFS121	170	ZPH35	173
Z467	217	Z907.1	161	Z960x	142	ZBS27	172	ZFS122	170	ZPP4811	61
Z468	217	Z907.2	161	Z962x	142	ZBS28	172	ZFS123	170	ZPP4835	61
Z470	122	Z907.3	161	Z963x	142	ZBS29	172	ZFS124	170	ZPP4855	61
Z480	122	Z907.4	161	Z964x	142	ZBS30	172	ZFS125	170	ZPP4860	61
Z490	122	Z908.1	161	Z965x	142	ZC2P	154	ZFS126	170	ZPP4880	61
Z544ST	33	Z908.3	161	Z966x	142	ZC3P	154	ZFS127	170	ZPP4895	61
Z600 SERIES	134	Z908.4	161	Z967x-1	142	ZC20	60	ZFS128	170	ZPP6710	61
Z608R	55	Z909	165	Z967x-2	142	ZC30	60	ZFS129	170	ZPP6750	61
Z609R	55	Z910	165	Z70377	204	ZC40	60	ZFS130	170	ZPP6770	61
Z629/77	138	Z912.60	147	Z90541	206	ZC50	60	ZFS131	170	ZPP4895	61
Z654ST	33	Z912.70	139, 147	ZADL	152	ZC610.1	149	ZFS132	170	ZPT105	151
Z699	139	Z912.70 KA1	147	ZAG	48	ZC6019	149	ZFS133	170	ZPTR105	151
Z702-xxx	159	Z912.80	147	ZAF3-1	170	ZC6021	149	ZFS134	170	ZPTS105	151
Z702/SDL	143	Z915.1	165	ZAF3-2	170	ZC6DL	150	ZFS135	170	ZPT180	151
Z703-xxx	159	Z915.2	165	ZAF3-3	170	ZCF102	168	ZFS136	170	ZPTR180	151
Z801.1	123	Z915.3	165	ZAF3-4	170	ZCF114	168	ZFS137	170	ZPTS180	151
Z801.2	123	Z915.4	165	ZAF3-5	170	ZCF202	168	ZFS138	170	ZPT200	154
Z801.3	123	Z920-SNP	165	ZAF3-6	170	ZCF214	168	ZFS139	170	ZPT1000	154
Z801.4	123	Z922.7-SSS	160	ZAF3-7	170	ZCFR19	163	ZFS140	170	ZR200	149
Z801.5	123	Z940/9BFB	226	ZAF3-8	170	ZCFR25	163	ZFS141	170	ZRB	58
Z801.6	123	Z942.40	147	ZAF3-9	170	ZCHDB	147	ZFS142	170	ZRS	58
Z801.7	123	Z942.45	147	ZAF3-10	170	ZCHDB-KEY	147	ZFS143	170	ZSB01	221
Z801.8	123	Z952.40	147	ZAF3-11	170	ZCH37.1	229	ZFS144	170	ZSB02	221
Z801.9	123	Z952.45	147	ZAF3-12	170	ZCOV160	167	ZFS145	170	ZSB03	221
Z801.10	123	Z952.45 KA1	147	ZAF3-13	170	ZCOV200	166, 167	ZFS146	170	ZSC01	161
Z801.11	123	Z955	49	ZAF3-14	170	ZCP033	208, 210	ZFS147	170	ZSC02	139, 140, 161
Z801.12	123	Z962.60	147	ZAF3-15	170	ZCP044	208, 210	ZFS148	170	ZSC03	161
Z801.13	123	Z962.70	147	ZAF3-16	170	ZCP201	149	ZFS149	170	ZSC04	161
Z801.14	123	Z962.70 KA1	147	ZAF3-17	170	ZCP-HO	208	ZFS165	172	ZSC05	161
Z807.1/S	160	Z1020.141.xx	158	ZAF3-18	170	ZCP/RUBBER	208	ZFS166	172	ZSC06	161
Z807.2/S	160	Z1020.142.xx	158	ZAF3-19	170	ZDL-360TB	154	ZH20	60	ZSC07	161
Z825	143	Z1020.160.xx	158	ZAF3-20	170	ZDLS	70	ZH30	60	ZSC08	161
Z840/8BFB	226	Z1020.170.xx	158	ZAF3-21	170	ZDP	214	ZH40	60	ZSC09	161
Z860/960/BFB	226	Z1138.6	229	ZAF3-22	170	ZDV90	167	ZH50	60	ZSC10	161
Z901.1	164	Z1402	215	ZAF3-23	170	ZDV180	166	ZHxxxBB	115	ZSP301	171
Z901.2	164	Z1749/LINKBAR	140	ZAF3-24	170	ZDV-UL	167	ZHxxxBB.STUD	115	ZSP302	171
Z901.3	164	Z1749/09/42	140	ZAF3-25	170	ZEHD1803	217	ZH1803	217	ZSP303	171
Z901.4	164	Z1749/47/42	140	ZAF3-26	170	ZEU995SC	148	ZHP44.x-S	72	ZSP304	171
Z901.5	164	Z1749/SP	140	ZAF3-27	170	ZEU996SC	148	ZHS617	229	ZSP315	171
Z901.6	164	Z1769/56	139	ZAF3-28	170	ZF1	233	ZIDCC	58	ZSP316	171
Z901.7	164	Z1769/66	139	ZAF3-29	170	ZF2	233	ZIDR23	58	ZSP317	171
Z901.8	164	Z1803HO	217	ZAF3-30	170	ZF3	233	ZIDUC	58	ZSP318	171
Z902.1	164	Z1804	215	ZAF3-31	170	ZF4	236	ZIRS	58	ZSP327	171
Z902.2	164	Z1870-200	227	ZAF3-32	170	ZF5	233	ZIRS/A	58	ZSP328	171
Z903.4	139, 160	Z1870-300	227	ZAF3-33	170	ZF6	233	ZKP113	164	ZSP329	171
Z903.7	160	Z1932	229	ZAF3-34	170	ZF7	233	ZKP113E	164	ZSP330	171
Z903.7N	160	Z2001	148	ZAF3-35	170	ZF8	233	ZKP115	164	ZSP362	171
Z904.4B	160	Z2018HD	214	ZASCF	59	ZF9	234	ZKP127	164	ZSP363	171
Z904.4BTF	161	Z2018HD-BI	214	ZASSS	59	ZF10	234	ZKP128	164	ZSS01	139, 140, 161
Z904.4E	139, 160	Z2019HD	214	ZB4012	149	ZF11	234	ZKP129	164	ZTSA	236
Z904.4L	160	Z2108	215	ZBFB	226	ZF12	234	ZKP316	164	ZWLC	167
Z904.4U	160	Z2201	148	ZBS	58	ZF13	234	ZKP500	149	ZWL1	167
Z904.4W	160, 165	Z3001	148	ZBS1	172	ZF14	233	ZLE1	173	ZWS8	166
Z904.7B	160	Z3760	135	ZBS2	172	ZF15	234	ZLE2	173	ZWS9	167
Z904.7E	160	Z3780	135	ZBS3	172	ZFC620/WH	149	ZLE3	173	ZWS12	122
Z904.7L	160	Z4590	70	ZBS4	172	ZFLEX	152	ZLE4	173	ZWS13	167
Z904.7N	160	Z4591	70	ZBS5	172	ZFLEX-C	153	ZLE5	173	ZWS13/WRAP	167
Z904.7U	160	Z6100 SERIES	138	ZBS6	172	ZFM	152	ZLE6	173	ZWS25	166
Z904.7W	160, 165	Z6102	138	ZBS7	172	ZFS18	172	ZLE7	173	ZWS44	166
Z904.SEC	160	Z6104	138	ZBS8	172	ZFS18L	217	ZLE8	173	ZWS124	166



CONVERSION TABLES

METRIC/IMPERIAL MULTIPLIERS

TO CONVERT	INTO	MULTIPLY BY
Metres	Feet	3.281
Feet	Metres	0.3048
Inches	Metres	0.0254
Metres	Inches	39.37
Millimetres	Inches	0.03937
Inches	Millimetres	25.4
Millimetres	Feet	0.003281
Feet	Millimetres	304.8

USA LIQUID MEASURES AND UK EQUIVALENTS

USA DRY MEASURE EQUIVALENTS		
1 US pt	= 0.9689 UK pt	= 0.5506 l
1 US bushel	= 1.2445 ft ³	= 35.239 l
USA LIQUID MEASURE EQUIVALENTS		
1 US fl oz	= 1.0408 UK fl oz	= 29.574 ml
1 US pt (16 fl oz)	= 0.8327 UK pt	= 0.4732 l
1 US gal	= 0.8327 UK gal	= 3.7854 l

IMPERIAL MEASURES AND METRIC EQUIVALENTS

LENGTH		
1 inch (in)		= 2.54 cm
1 foot (ft)	= 12 in	= 0.3048 m
1 yard (yd)	= 3 ft	= 0.9144 m
1 mile	= 1,760 yd	= 1.6093 km
1 int. nautical mile	= 2,025.4 yd	= 1.852 km
AREA		
1 sq inch (in ²)		= 6.4516 cm ²
1 sq foot (ft ²)	= 144 in ²	= 0.0929 m ²
1 sq yard (yd ²)	= 9 ft ²	= 0.8361 m ²
1 acre	= 4,840 yd ²	= 4,046.9 m ²
1 sq mile (mile ²)	= 640 acres	= 2.590 km ²

METRIC MEASURES AND IMPERIAL EQUIVALENTS

LENGTH		
1 millimetre (mm)		= 0.0394 in
1 centimetre (cm)	= 10 mm	= 0.3937 in
1 metre (m)	= 100 cm	= 1.0936 yd
1 kilometre (km)	= 1,000 m	= 0.6214 mile
AREA		
1 sq cm (cm ²)	= 100 mm ²	= 0.1550 in ²
1 sq metre (m ²)	= 10,000 cm ²	= 1.1960 yd ²
1 sq km (km ²)	= 100 hectares	= 0.3861 mile ²

IMPERIAL/METRIC CONVERSION TABLE

FEET	INCHES	MM	METRES
2' 0"	24	610	0.610
2' 6"	30	762	0.762
3' 0"	36	914	0.914
3' 6"	42	1067	1.067
4' 0"	48	1219	1.219
4' 6"	54	1372	1.372
5' 0"	60	1524	1.524
5' 6"	66	1676	1.676
6' 0"	72	1829	1.829
6' 6"	78	1981	1.981
7' 0"	84	2134	2.134
7' 6"	90	2286	2.286
8' 0"	96	2438	2.438
8' 6"	102	2591	2.591
9' 0"	108	2743	2.743
9' 6"	114	2896	2.896
10' 0"	120	3048	3.048

VOLUME / CAPACITY		
1 cu inch (in ³)		= 16.387 cm ³
1 cu foot (ft ³)	= 1,728 in ³	= 0.0283 m ³
1 cu yard (yd ³)	= 27 ft ³	= 0.7646 m ³
1 fluid ounce (fl oz)		= 28.413 ml
1 pint (pt)	= 20 fl oz	= 0.5683 l
1 gallon (gal)	= 8 pt	= 4.546 l
MASS (WEIGHT)		
1 ounce (oz)	= 437.5 grains	= 28.35 g
1 pound (lb)	= 16 oz	= 0.4536 kg
1 stone	= 14 lb	= 6.3503 kg
1 hundredweight (cwt)	= 112 lb	= 50.802 kg
1 ton	= 20 cwt	= 1.016 t

VOLUME / CAPACITY		
1 cu cm (cm ³)		= 0.0610 in ³
1 cu decimetre (dm ³)	= 1,000 cm ³	= 0.0353 ft ³
1 cu metre (m ³)	= 1,000 dm ³	= 1.3080 yd ³
1 litre (l)	= 1 dm ³	= 1.76 pt
1 hectolitre (hl)	= 100 l	= 21.997 gal
MASS (WEIGHT)		
1 milligram (mg)		= 0.0154 grain
1 gram (g)	= 1,000 mg	= 0.0353 oz
1 metric carat	= 0.2 g	= 3.0865 grains
1 kilogram (kg)	= 1,000 g	= 2.2046 lb
1 tonne (t)	= 1,000 kg	= 0.9842 ton

CONVERSION TABLES

WIND VELOCITY CONVERSION CHART

WIND VELOCITY	PRESSURE	PRESSURE	PRESSURE	PRESSURE
Miles per Hour (MPH)	Pounds per Sq Ft (PSF)	Inches of Water	Pascals (Pa)	Inches of Mercury (Hg)
5	0.06	0.01	3.06	0.00
10	0.26	0.05	12.24	0.00
15	0.58	0.11	27.54	0.01
20	1.02	0.20	48.96	0.01
25	1.60	0.31	76.49	0.02
30	2.30	0.44	110.15	0.03
35	3.14	0.60	149.93	0.04
40	4.10	0.79	195.82	0.06
45	5.18	1.00	247.87	0.07
50	6.40	1.23	305.97	0.09
55	7.74	1.49	370.23	0.11
60	9.22	1.77	440.60	0.13
65	10.82	2.08	517.09	0.15
70	12.54	2.41	599.70	0.18
75	14.40	2.76	688.44	0.20
80	16.38	3.15	783.29	0.23
85	18.50	3.55	884.26	0.26
90	20.74	3.98	991.35	0.29
95	23.10	4.44	1104.56	0.33
100	25.60	4.92	1223.88	0.36
105	28.22	5.42	1349.33	0.40
110	30.98	5.95	1480.90	0.44
115	33.86	6.50	1618.59	0.48
120	36.86	7.08	1762.39	0.52
125	40.00	7.68	1912.32	0.57
130	43.26	8.31	2068.37	0.61
140	50.18	9.63	2398.81	0.71
150	57.60	11.06	2753.74	0.81
160	65.54	12.58	3133.15	0.93
170	73.98	14.20	3537.03	1.05
180	82.94	15.93	3965.39	1.17
190	92.42	17.74	4418.22	1.31
200	102.40	19.66	4895.54	1.45

Conversions:

PSF = 0.00256 (MPH)²Inches of Hg = In. H₂O (0.0735539)Inches of H₂O = 0.192227 (PSF)

Inches of Hg = 0.014139 (PSF)

Pascals = 249 (inches of H₂O)

PSF = 70.7262 (In. Hg)

RAL NUMBER CONVERSION CHART

RAL NUMBER	COLOUR
RAL 9010	White
RAL 9005	Black
RAL 8014	Brown
RAL 9006	Silver Grey
RAL 5013	Blue
RAL 6029	Green
RAL 3002	Red
RAL 1021	Yellow

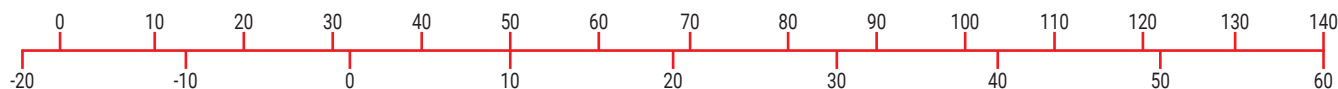
US METAL FINISHES

REF	FINISH
US 3	Bright brass, clear coating
US 4	Satin brass, clear coating
US 10	Satin bronze, clear coating
US 10B	Satin bronze, dark oxidized and oil rubbed
US 26	Bright chromium plated
US 26D	Satin chromium plated
US 28	Satin aluminium, clear anodized
US 32	Bright stainless steel
US 32D	Satin stainless steel

TEMPERATURE - FAHRENHEIT & CELSIUS

F = C x 9/5 + 32	C = (F - 32) x 5/9
Fahrenheit	Celsius
0.00	-17.78
10.00	-12.22
20.00	-6.67
30.00	-1.11
32.00	0.00
40.00	4.44
50.00	10.00
60.00	15.56
70.00	21.11
85.00	29.44
90.00	32.22
100.00	37.78
120.00	48.89
140.00	60.00
160.00	71.11
165.00	73.89
180.00	82.22
200.00	93.33
212.00	100.00
250.00	121.00
350.00	176.00
450.00	232.00
550.00	288.00

FAHRENHEIT



CELSIUS

STANDARD WIRE GAUGE AND METRIC EQUIVALENTS

SWG	IMPERIAL mm	METRIC SHEET mm
8 swg	4.06 mm	4.0 mm
10 swg	3.25 mm	3.0 mm
12 swg	2.64 mm	2.5 mm
14 swg	2.03 mm	2.0 mm
16 swg	1.63 mm	1.5 mm
18 swg	1.22 mm	1.2 mm
20 swg	0.914 mm	0.9 mm
22 swg	0.711 mm	0.7 mm
24 swg	0.558 mm	0.6 mm
26 swg	0.46 mm	0.5 mm

SCREW SIZE EQUIVALENTS

DIAMETER		COMMON LENGTHS	CLEARANCE HOLE	PILOT HOLE
Gauge	Metric	Metric	Metric	Metric
2	2 mm	6.5 - 13 mm	2.5 mm	1.6 mm
3	2.5 mm	10 - 25 mm	3 mm	1.6 mm
4	3 mm	6.5 - 38 mm	3.5 mm	2 mm
6	3.5 mm	10 - 65 mm	4 mm	2 mm
8	4 mm	10 - 90 mm	5 mm	2.5 mm
10	5 mm	13 - 100 mm	5.75 mm	3.5 mm
12	5.5 mm	19 - 125 mm	6.5 mm	3.5 mm
14	6.5 mm	32 - 150 mm	6.5 mm	4 mm

DECLARATION OF PERFORMANCE

From 1st July 2013 it became mandatory for any construction product placed on the market to be CE marked if it was covered by a harmonised European Standard (hEN) or European Technical Assessment (ETA). In addition to a valid CE Mark, manufacturers must also legally provide a Declaration of Performance (DoP) with every CE marked product, either with the product or on their website. Without a DoP, the CE Mark is invalid. The DoP must be available throughout the supply chain right up to the point the product is fitted on a door, and then for ten years afterwards, either in paper or electronic form.

Any construction product covered by a harmonised European standard or for which a European Technical Assessment has been issued needs a DoP and has to be CE marked. A harmonised standard is a European standard developed by a recognised European Standards Organisation such as CEN or CENELEC, and is used to demonstrate that products comply with relevant EU legislation.

As of April 2018, there are five groups of door hardware which are covered by a harmonised European standard and therefore require a DoP. These are hinges, door closers, locks and latches, door selectors and panic exit hardware. All Declarations of Performance for products that we supply in these five groups are listed below and can be easily downloaded from our website - www.zeroplus.co.uk

UKCA MARK

The UKCA (UK Conformity Assessed) marking is a new UK product marking that is used for goods being placed on the market in Great Britain (England, Wales and Scotland). It covers most goods which previously required the CE marking, known as 'new approach' goods. The UKCA marking came into effect on 1 January 2021. However, to allow businesses time to adjust to the new requirements, you will still be able to use the CE marking until 1 January 2023 in most cases.

At the time of going to print UKCA marking is pending for all products below, apart from our Z304 door coordinator and ZH series hinges which have a valid UKCA mark, and therefore a supporting Declaration of Performance.

DOOR CLOSERS

Successfully tested to BS EN 1154:1996 and have a valid CE mark:

- BRITON 1120B
- BRITON 1130B
- BRITON 2003
- BRITON 2004
- BRITON 2003V
- BRITON 121CE
- BRITON 131
- BRITON 2700
- BRITON 2300
- ZEROPLUS ZDS3
- ARROW 516VP
- ARROW 325VP
- ARROW AX85VP

DOOR CO-ORDINATORS / DOOR SELECTORS

Successfully tested to BS EN 1158:1997 and have a valid CE mark:

- ZEROPLUS Z304

MORTICE LOCKS & LATCHES

Successfully tested to BS EN 12209:2003 and have a valid CE mark:

- BRITON 5410 Deadlock
- BRITON 5420 Sashlock
- BRITON 5430 Bathroom Lock
- BRITON 5440 Latch
- BRITON 5560 Escape Lock
- BRITON N5641/N5761 5L Deadlock
- BRITON N5642/N5762 5L Sashlock
- NEMEF Z1769/56 Multi-Point Lock
- NEMEF 6100 Series
- NEMEF 6600 Series
- ZEROPLUS Z7210 Sashlock
- ZEROPLUS Z7220 Latch
- ZEROPLUS Z7230 Deadlock
- ZEROPLUS Z7250 Nightlatch

EMERGENCY EXIT HARDWARE

Successfully tested to BS EN 1125:2008 or BS EN 179:2008 and have a valid CE mark:

- BRITON 378
- BRITON 376
- BRITON 377
- BRITON 379
- BRITON 1438
- BRITON 372
- BRITON 389
- BRITON 561
- BRITON 571
- BRITON 573
- BRITON 581
- CORNI MINISTAR 429
- CORNI MINIPAD 423
- CORNI TOUCH 445
- CORNI EUROSMART
- CORNI MILLENIUM
- CORNI COMPOSIT NEW
- MAB EXIT 1000

HINGES

Successfully tested to BS EN 1935:2002 and have a valid CE mark:

- ZEROPLUS ZH Series
- H1254
- VX7729
- TE540 3D

FLOOR SPRINGS

Successfully tested to BS EN 1154:1996 and have a valid CE mark:

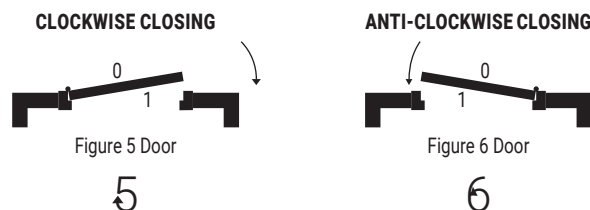
- MAB 7702 (7412)
- MAB 4232
- MAB 4242
- MAB 752

HANDING OF DOORS & HARDWARE

Looking back through old ironmongery catalogues, many items of door hardware were handed. This doubled-up stock levels and caused site problems when incorrect hands were supplied. In more recent years, there has been a trend towards making door hardware easily reversible or universally handed. However, occasions still arise where this is impossible or impractical for manufacturers and it is therefore necessary to state the "hand" of the product when ordering. This can lead to confusion where a product that is termed "left-hand" by one manufacturer is designated "right hand" by another. Furthermore, national handing codes such as DIN in Germany or ANSI in the USA may also differ substantially.

In order to avoid confusion and costly mistakes we use the International Standard Organisation (ISO) handing convention based on a combination of the direction of closing and the door face to which a hardware component is fixed. A handing code can then unambiguously describe the door leaf as detailed below:

ISO HANDING CODE	DOOR CLOSING ROTATION & DOOR FACE
5.0	Clockwise closing door, opening face
5.1	Clockwise closing door, closing face
6.0	Anti-clockwise closing door, opening face
6.1	Anti-clockwise closing door, closing face



The opening face of a door is denoted by 0
The closing face of a door is denoted by 1

Items from our own ranges that are handed are some dropseals, lift-off flag hinges, single action floor spring straps, combination Pullman latch kits for panic bolts and some door stays. The product most likely to be incorrectly handed are the split follower locks on pages 141-143, and we adopt a convention of Fig 1, Fig 2, Fig 3 and Fig 4 to describe the hand of the door, whether it opens inwards or outwards and whether it is clockwise or anti-clockwise closing.



FIG 1
Left Hand inward opening
ISO 6 anti-clockwise closing



FIG 2
Right Hand inward opening
ISO 5 clockwise closing



FIG 3
Left Hand outward opening
ISO 6 anti-clockwise closing



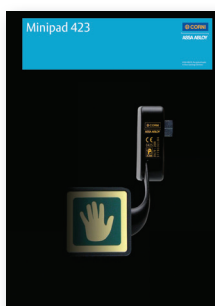
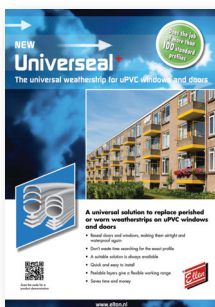
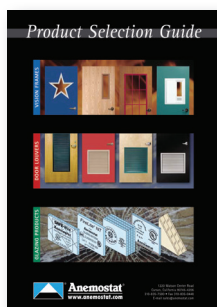
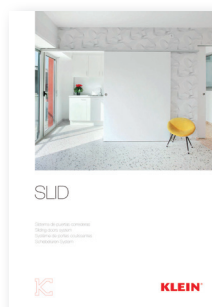
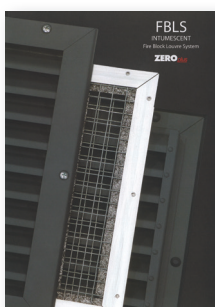
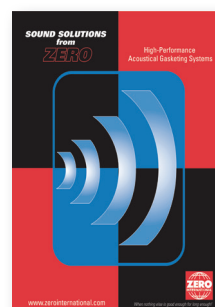
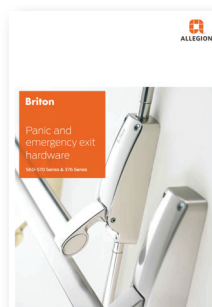
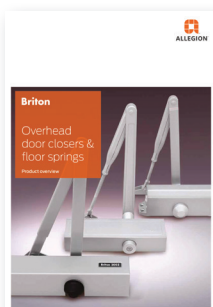
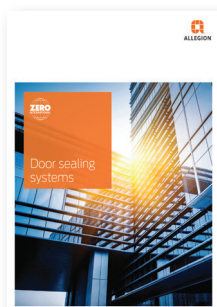
FIG 4
Right Hand outward opening
ISO 5 clockwise closing

STANDARDS & LEGISLATION

PRODUCT	STANDARD	CE	FULL TITLE
Single axis hinges	BS EN 1935:2002	Yes	Building hardware. Single-axis hinges. Requirements and test methods
Controlled door closing devices	BS EN 1154:1997	Yes	Building hardware. Controlled door closing devices. Requirements and test methods
Electrically powered hold-open devices	BS EN 1155:1997	Yes	Building hardware. Electrically powered hold-open devices for swing doors. Requirements and test methods
Door co-ordinators	BS EN 1158:1997	Yes	Building hardware. Door co-ordinator devices. Requirements and test methods
Electrically released hold-open systems	BS EN 14637:2007	N/A	Building hardware. Electrically controlled hold-open systems for fire/smoke door assemblies. Requirements, test methods, application and maintenance
Locks & Latches	BS EN 12209:2016	Yes	Building hardware. Locks and latches. Mechanically operated locks, latches and locking plates. Requirements and test methods
Cylinders for locks	BS EN 1303:2015	N/A	Building hardware. Cylinders for locks. Requirements and test methods
Lever handles and knobs	BS EN 1906:2012	N/A	Building hardware. Lever handles and knob furniture. Requirements and test methods
Padlocks & padlock fittings	BS EN 12320:2012	N/A	Building hardware. Padlocks and padlock fittings. Requirements and test methods
Electromechanical locks and strikes	BS EN 14846:2008	Yes	Building hardware. Locks and latches. Electromechanically operated locks and striking plates. Requirements and test methods
Door & window bolts	BS EN 12051:2000	N/A	Building hardware. Door and window bolts. Requirements and test methods
Emergency exit devices	BS EN 179:2008	Yes	Building hardware. Emergency exit devices operated by a lever handle or push pad, for use on escape routes. Requirements and test methods
Panic exit devices	BS EN 1125:2008	Yes	Building hardware. Panic exit devices operated by a horizontal bar, for use on escape routes. Requirements and test methods
Electronic exit devices	BS EN 13637:2015	N/A	Building hardware. Electrically controlled exit systems for use on escape routes. Requirements and test methods
Sliding door hardware	BS EN 1527:2013	N/A	Building hardware. Hardware for sliding doors and folding doors. Requirements and test methods
Powered pedestrian doorsets	BS EN 16005:2012	Yes	Power operated pedestrian doorsets. Safety in use. Requirements and test methods
Window fittings (17 parts)	BS EN 13126-1:2011	N/A	Building hardware. Hardware for windows and door height windows. Requirements and test methods. Requirements common to all types of hardware
Letter plates	BS EN 13724:2013	N/A	Postal services. Apertures of private letter boxes and letter plates. Requirements and test methods
Gaskets & weather-stripping	BS EN 12365-1:2003	N/A	Building hardware. Gasket and weather-stripping for doors, windows, shutters and curtain walling. Performance requirements and classification
Corrosion resistance	BS EN 1670:2007	N/A	Building hardware. Corrosion resistance. Requirements and test methods
Hardware for shutters	BS EN 14648:2007	N/A	Building hardware. Fittings for shutters. Requirements and test methods
Hardware for the disabled	PD CEN/TR 15894:2009	N/A	Building hardware. Door fittings for use by children, elderly and disabled people in domestic and public buildings. A guide for specifiers
Pull handles	BS 8424:2004	N/A	Building hardware. Pull handles. Requirements and test methods
Design of buildings for people with disabilities	BS 8300:2009+A1:2010	N/A	Design of buildings and their approaches to meet the needs of disabled people. Code of practice
Thief resistant lock assembly - Keyless egress	BS 8621:2017	N/A	Lock assemblies operated by key from the outside of the door and by handle or thumb turn from the inside of the door
Thief resistant locks assembly. Key egress	BS 3621:2017	N/A	Lock assemblies operated by key from both the inside and outside of the door
Thief resistant lock dual mode lock assembly	BS 10621:2017	N/A	Lock assemblies in which the operating mode can be switched between the normal BS 8621 operating mode and a secure mode in which no egress is possible
Threshold slip tests	BS 7976-2:2002+A1:2013	N/A	Pendulum testers. Method of operation
Fire Tests	BS 476-22:1987	N/A	Fire tests on building materials and structures. Method for determination of the fire resistance of non-load bearing elements of construction
Smoke leakage tests	BS 476-31.1:1983	N/A	Fire tests on building materials and structures. Methods for measuring smoke penetration through door sets and shutter assemblies. Method of measurement under ambient temperature conditions
Fire tests	BS EN 1634-1:2014	N/A	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Fire resistance test for door and shutter assemblies and openable windows
Smoke leakage tests	BS EN 1634-3:2004	N/A	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Smoke control test for door and shutter assemblies
Acoustic tests	BS EN ISO 140-3:1995 BS 2750-3:1995	N/A	Acoustics. Measurement of sound insulation in buildings and of building elements. Laboratory measurement of airborne sound insulation of building elements
Flush bolts	BS EN 12051:2000	N/A	Building hardware. Door and window bolts. Requirements and test methods
Flat safety glass	BS 6206:1981	Yes	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
Flat safety glass	BS EN 12600:2002	Yes	Glass in building. Pendulum test. Impact test method and classification for flat glass
Security glazing	BS EN 356:2000	N/A	Glass in building. Security glazing. Testing and classification of resistance against manual attack
Running man signage	BS EN ISO 7010:2012+A6:2016	N/A	Graphical symbols. Safety colours and safety signs. Registered safety signs
Fire safety	Approved Document B	N/A	Fire Safety. Building Regulations 2010 (amended 2013) Volume 1: Dwellings Volume 2: Buildings other than dwellings
Acoustics	Approved Document E	N/A	Resistance to the passage of sound. Building Regulations 2010 (amended 2015)
Inclusive design	Approved Document M	N/A	Access to and use of buildings. Building Regulations 2010 (amended 2016) Volume 1: Dwellings Volume 2: Buildings other than dwellings
Glazing safety	Approved Document N	N/A	Glazing - safety in relation to impact, opening and cleaning. Building Regulations 2010
Security	Approved Document Q	N/A	Security-Dwellings. Building Regulations 2010 (amended 2015)
Quality management systems	BS EN ISO 9001:2015	N/A	Quality management systems. Fundamentals and vocabulary

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If you require more technical information than is shown in this red catalogue and price list please contact us for hard copies or links to manufacturers' technical literature. This No.25 catalogue is also available in digital format, and we can provide a link upon request. There is also an unpriced version of this catalogue available (No.26) should you wish to forward unpriced product information to your own client (No.26 in digital format only). Again, please e-mail us at: sales@zeroplus.co.uk for a link.



TERMS & CONDITIONS OF SALE

2022

MINIMUM INVOICE VALUE

There is no minimum order charge.

PRICES

All prices are in pounds sterling. Goods will be invoiced at the price ruling on the day the order is received. This price list cancels all previous issues and prices are subject to alteration without prior notification. Quotations for special items are firm for a period of six weeks.

UNITS OF MEASURE

All threshold and seal prices are for stock sizes based on the rate per metre unless indicated "each". Stock lengths that are cut to size are charged at the stock size rate. Automatic door bottoms are priced each.

CURRENCY FLUCTUATION

Prices may be subjected to currency fluctuation.

VALUE ADDED TAX

VAT, duty and other taxes are not included in prices or quotations but will be shown on invoices and charged at current rate where applicable.

TERMS OF PAYMENT

Subject to credit being approved (and unless otherwise expressly agreed), accounts are due for payment not later than the end of the month following the month of despatch, unless payment has been received by the Company against a pro-forma invoice before despatch. Settlement terms are strictly net.

DELIVERY

Please refer to page 2 for carriage charges. Additional carriage may be charged on orders for glass.

AIRFREIGHT

Airfreight will be charged at cost for non-stock items requested for urgent delivery.

CLAIMS FOR SHORT DELIVERY AND DAMAGE

Claims for non-delivery, shortages or damage to goods must be notified to the Company within 24 hours of receipt. Any glass breakages or discrepancies with glass deliveries must be notified within 24 hours.

RETURN OF GOODS

Goods may be returned for credit only after having received written approval from the Company. Any offer of credit will be at the discretion of the Company and will be subject to the condition and resaleability of the goods on arrival and inspection. The invoice number and date must be stated on the accompanying returns note and a handling and re-stocking charge of 25% will be made. Non standard and specially fabricated items are not returnable.

PERFORMANCE

All delivery promises are estimates only and are given in good faith. The Company will not be liable in any circumstances for the consequences of any delay in delivery or failure to deliver. The Company accepts no responsibility for the cost of any form of rapid transportation service stipulated by the buyer.

CANCELLATIONS AND AMENDMENTS

Cancellation of orders will only be accepted after written approval from the Company and subject to a cancellation charge of 20%. We reserve the right to refuse cancellation of an order if it has been partly or wholly made or shipped from the factory, or alternatively to claim from the buyer the cost of work already completed. Amendments to orders must also be agreed by the Company in writing and are subject to the same conditions covering cancellation.

LIABILITY

All quotations are given and goods sold subject to the condition that the Company's liability is limited to goods proved to have been defective in material or workmanship when they left the Company's warehouse. No claim will be accepted where goods have been used for any purpose for which they were not intended, not fitted correctly, not maintained to the Company's recommended standards, or have been abused or misused. The Company's liability is restricted solely to replacement of defective goods or material. No liability is accepted for loss or damage to any property or part of any building, nor for loss due to delay in delivery or loss of time for any reason. The Company will replace free of charge any goods found to be incorrect through its error, or defective or sub-standard in manufacture, and reserves the right to replace such goods with those of the same or similar specifications as soon as is practicable. No claim for any other reason outside those outlined above will be entertained.

RETENTION OF TITLE

Ownership of goods shall remain with the Company and will not pass to the Buyer until payment in full is received of all outstanding invoices. If any goods are re-sold before payment is made the Company's right of ownership shall be transferred to the proceeds of sale or to the claim for such proceeds.

SAMPLES

Samples will be charged at normal selling price and will be credited in full upon return.

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Our company has a culture of continuous improvement, both for services and products. In the interests of continuous product improvement, we reserve the right to alter the specification and detail of items shown in this catalogue without notice. Zero Seal Systems Ltd accepts no liability howsoever arising from errors or omissions in this catalogue.



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