

Pyrohinge®

Intumescent Gaskets for Ironmongery & Hardware

CI/SfB

(K2)

OCTOBER 2003

Introduction

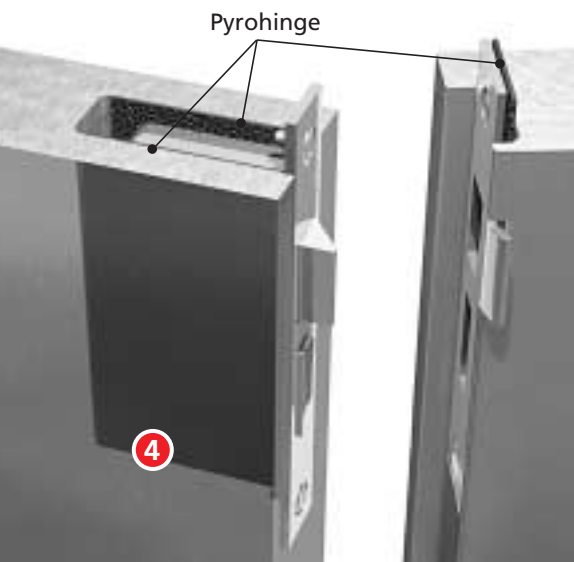
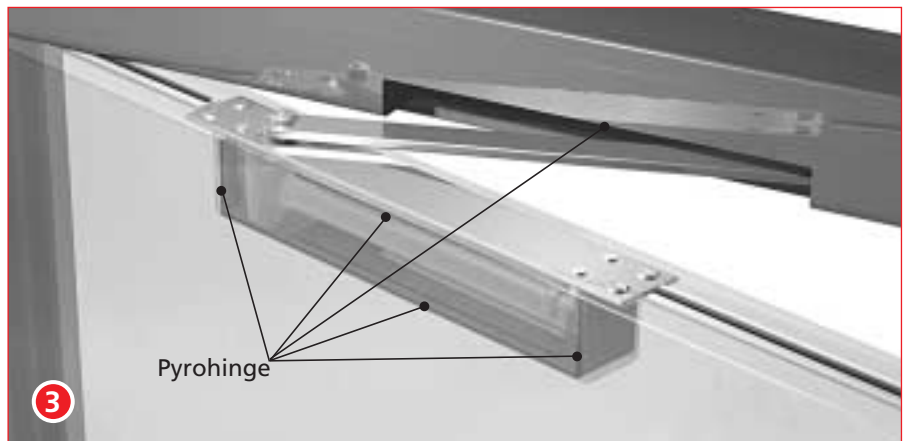
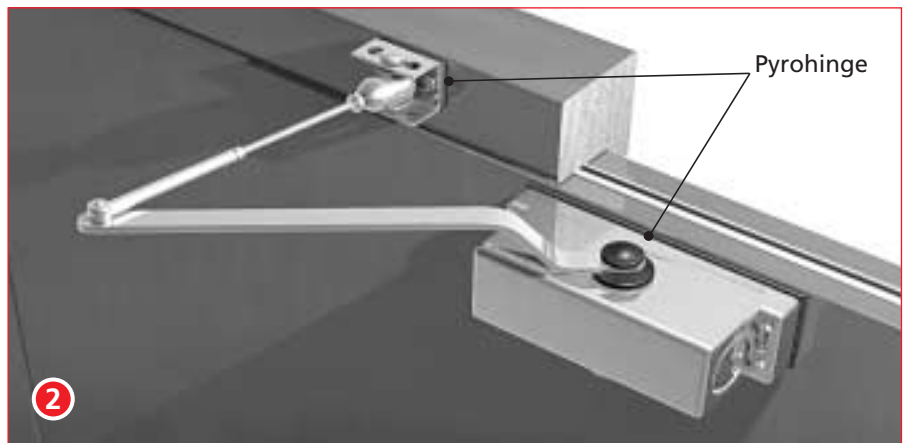
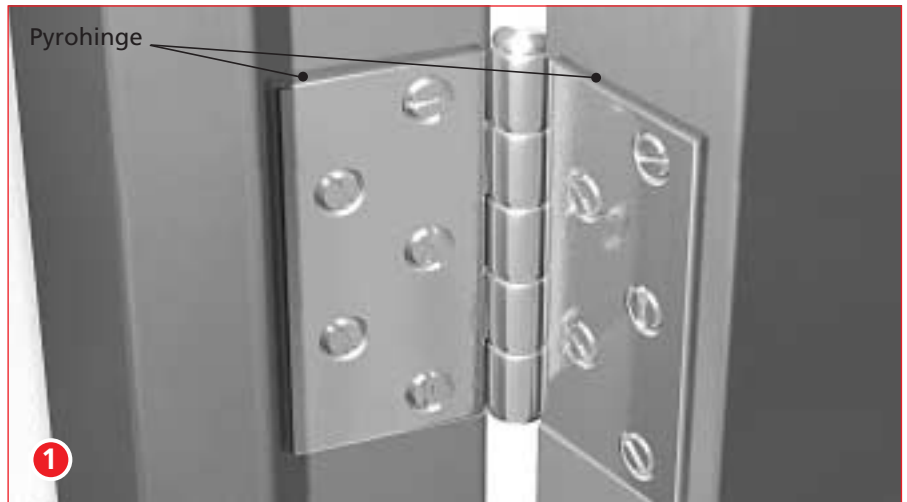
It is essential to incorporate items of ironmongery on timber-based fire-resisting doors to ensure the doors operate correctly. However, as these items are metallic, they provide a large heat sink in the areas of hinges, latches, locks, pivots and closers. In the event of a fire, these areas will cause the timber door and/or frame to char away, having a seriously detrimental effect on the fire integrity of the door set.

Pyrohinge gaskets are manufactured using high performance intumescent material that will insulate the timber, thus slowing down the charring process where the timber interface meets with the item of ironmongery.

Description

Pyrohinge gaskets are 2mm thick, charcoal grey in colour and available in three standard widths. The material can be easily cut, drilled and fitted into position. A self-adhesive version can be supplied on request, to further assist with fixing.

Pyrohinge can also be manufactured specifically to suit any item of ironmongery or hardware. We can produce these gaskets using any thickness of material from 1mm upwards. Holes, cut-outs and notches can be incorporated to suit your design. CAD drawings are held within our Q.A. system to ensure accurate manufacturing each and every time.



- 1 Pyrohinge set behind hinges
- 2 Pyrohinge situated behind door closer
- 3 Pyrohinge used as a gasket around a concealed door closer
- 4 Pyrohinge located behind locks
- 5 Pyrohinge situated under pivot plate of double action door



Performance

Pyrohinge cannot be fire tested as a stand-alone product. However, the product has been fire tested by numerous Mann McGowan clients, including fire door manufacturers and ironmongery/hardware manufacturers. Some of the tests are listed in the table below.

Applications

Pyrohinge gaskets should be fitted between the metal interface of the ironmongery and the timber door and frame on hinges, concealed door closers, overhead closers, locks, latches and top pivots.

Finishes

Colour: Charcoal Grey and White

Sizes: 32mm wide x 2mm thick

35mm wide x 2mm thick

48mm wide x 2mm thick

All supplied in 7.32 metre rolls

Non-standard sizes can be manufactured; please contact our sales office for further information.

A self-adhesive version can be supplied on request.

Installation

Select the appropriate width of Pyrohinge to suit the particular piece of ironmongery.

Cut to size using a sharp knife.

Fix to the back face of the unit using contact adhesive.

Alternatively pin to the timber door/frame using one (1) small panel pin.

Chisel a 2mm increase from the timber to accommodate hinges, lock striker plates, concealed closers, or 4.5mm increase to accommodate locks.

Screw the item of ironmongery into position.

Pyrohinge gaskets can be butt jointed together if necessary.

Storage

Store in dry and clean conditions.

Technical Services

Mann McGowan can advise on the use and application of any of our products. We can provide CPD presentations, site surveys, installation services all at your request.

Ordering

Products can be ordered directly from our sales office, either by telephone, fax or email. We can arrange account facilities and we also accept Barclaycard for payment of goods.

Quality Management

Mann McGowan's quality management system has been registered to ISO 9002. SGS Certificate 93/2172 applies.

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All information, specifications and illustrations contained in this literature are given as guidance only and do not form part of any contract.

For details of other fire sealing products visit our website:

www.mannmcgowan.co.uk

Pyrohinge Fire Tests

Report No.	Sponsor	Result	Details
70603	Mann McGowan	33 minutes	Pyrohinge used to bed Royd and Tucker Hi Load 101 Hinges, and Gibbons Latch lever/handle set
67719/C	Mann McGowan	47 minutes	Pyrohinge used to bed ASSA 3228 Hinges, Geze Door Closer, Mortice Latch
97061	Mann McGowan	60 minutes	Pyrohinge used to bed Royd and Tucker Hi Load Hinges and Tubular Mortice Latch
903	Mann McGowan	42 minutes	Pyrohinge used to bed double action pivot plates
942	Mann McGowan	61 minutes	Pyrohinge used to bed double action pivot plates
102079	Magnet Ltd	30+ minutes	Pyrohinge used to bed hinges (make unknown)
107892	Magnet Ltd	30+ minutes	Pyrohinge used to bed hinges (make unknown)
97151	Falcon Products	30+ minutes	Pyrohinge used to bed Royd and Tucker Hi Load 101 Hinges and Mortice Latch
RF99087	Chiltern Int. Fire	72 minutes	Pyrohinge used to bed Royd and Tucker 101 Hi Load Hinges
FR1507	Pilkington Glass	30 minutes	Pyrohinge used to bed 100 x 35mm steel butt hinges
C81599	Pilkington Glass	30 minutes	Pyrohinge used to bed 100 x 35mm steel butt hinges



Certificate No: 93/2172 FIRAS MEMBER

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