

# Pyroglaze 30

FIRE RESISTING GLAZING SEALS

(31.39), Yt4, (K2) November 2000
-------------------------------------

Fire seals offering 30 minutes protection and tested successfully with a wide range of glasses.

## Introduction

This data sheet provides information relating to the specification and use of Mann McGowan's Pyroglaze 30 seals when used in 30 minute fire resistant timber-glazed apertures.

Pyroglaze 30's unique Intumescent properties can be used to enhance the performance of fire resisting glass when glazed into timber screens and doors.

## Description

Pyroglaze 30 seals comprise of self adhesive semi-rigid pvc encapsulated strips, which are easily located between a fire resisting glass and untreated timber glazing beads.

The system is simple, quick and clean and needs no cleaning down after installation.

## Performance

Pyroglaze 30 seals have been fire tested/assessed in accordance with BS 476 Part 22 in conjunction with numerous glasses including,

- Firelite
- Five Star
- GWPP
- Pyran S
- Pyranova
- Pyrobel
- Pyrobelite
- Pyrocet
- Pyrodur
- Pyroguard
- Pyroshield
- Pyrostop
- Pyroswiss

When subjected to a fully developed fire situation, the intumescent core swells to provide an effective seal within the glazing pocket, and also reduces the risk of premature ignition of the glazing beads on the protected face.



Reference to the various glass types relates to fire performance only. Part N of the Approval Documents should be consulted regarding safety.

Further fire tests are planned with other glass types, as part of our continuous R and D programme.

The system has been assessed by Chiltern International Fire, International Fire Consultants, TRADA QA Fire Door Scheme, and Warrington Fire Research. Mann McGowan is a FIRAS registered distributor.

See fire test table on back page.

## Specification Clauses

Pyroglaze 30 can be specified in accordance with clauses 500 and 505 of National Building Specification work section L40.

500	505
Fire Resistant Glazing:.....	Fire Resistant Glazing:.....
Drawing reference(s):.....	Drawing reference(s):.....
Fire rating: <i>30 minutes integrity/insulation (delete as applicable) in accordance with BS 476 Part 22.</i>	Fire rating: <i>30 minutes integrity/insulation (delete as applicable) in accordance with BS 476 Part 22.</i>
Pane material: <i>(Specify glass required)</i>	Pane material: <i>(Specify glass required)</i>
Surrounding bead: <i>Refer to Mann McGowan or door manufacturer.</i>	Surrounding bead: <i>Refer to Mann McGowan or door manufacturer.</i>
Glazing system:.....	Glazing system:.....
Tape: <i>PYROGLAZE 30 intumescent glazing seals (specify colour).</i>	Tape: <i>PYROGLAZE 30 intumescent glazing seals (specify colour).</i>
Apply: <i>PYROGLAZE 30 to the beads and fix as specified in manufacturers literature. Leave no gaps in corners.</i>	Apply: <i>PYROGLAZE 30 to the beads and fix as specified in manufacturers literature. Leave no gaps in corners.</i>
Pointing Sealant:.....	Pointing Sealant:.....

## Applications

Pyroglaze 30 seals can be used for glazing fire resisting screens, partitions, and fire rated doors.

The following door manufacturers/suppliers have assessment's to use the Pyroglaze system.

- Baillargeon
- J.Carr (Jeld Wen)
- Cipta
- C. Leary
- Crosby/Regency
- Halspan
- Magnet
- Pfliederer
- STP
- Timbmet
- Vicaima

For external applications the glazing should be carried out to ensure the system is sealed against climatic conditions. (Please refer to BS 8000)

## Construction

When constructing glazed screens, all timber must have a density of approximately 650 kg/cu. Mtr.

The geometry of the glazing beads depends on the glass type (see diagrams).

Mainframes should be securely fixed to the structure and then stopped using the following alternatives:-  
Pyromas A (10mm deep),  
2No. Pyrostrip 500 PSA 20mm x 4mm,  
or Pyrospan.

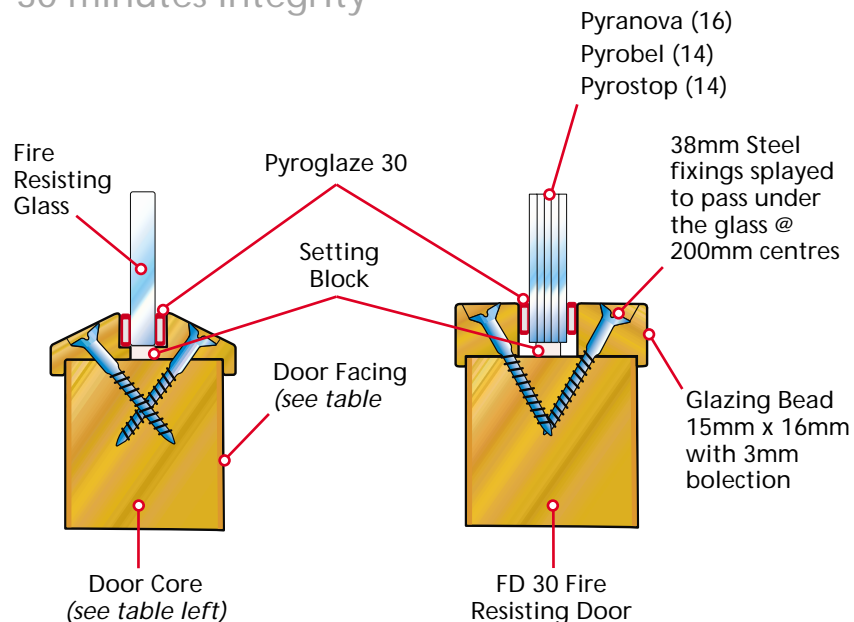
Pyroglaze 30 is fitted to the glazing beads by peeling off the release paper on the self-adhesive face of the strip and bonding into position.

Glazing beads should be secured into position using either 1 1/2" long steel screws or 38mm long pins at 200mm centres. In both cases, the fixings should be splayed to pass underneath the glass.

DOOR CORES	FACINGS
Flaxboard	Plywood
Softwood lamels	Plywood
Chipboard lamels	Plywood
Hardwood lamels	Plywood
Softwood lamels	Chipboard
Tubular lamels	Plywood

# Timber Doorset

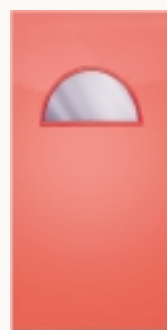
## 30 minutes integrity



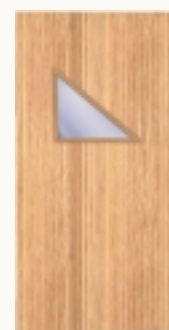
### PYROGLAZE 30 GLAZING SEALS WITHIN SHAPED APERTURES



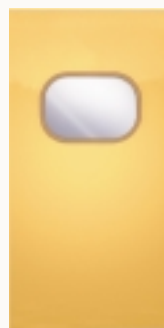
Maximum diameter 500mm



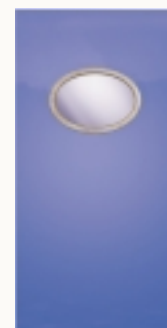
Maximum diameter 500mm



Straight edges not to exceed 500mm



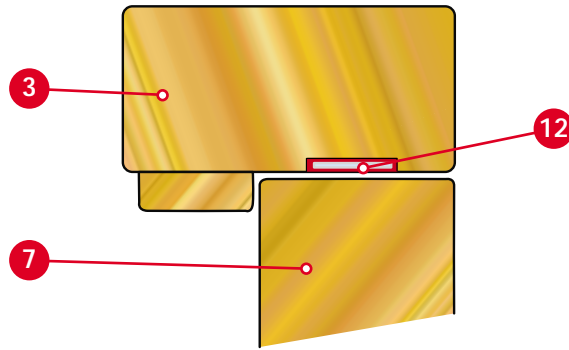
Straight edges not to exceed 500mm



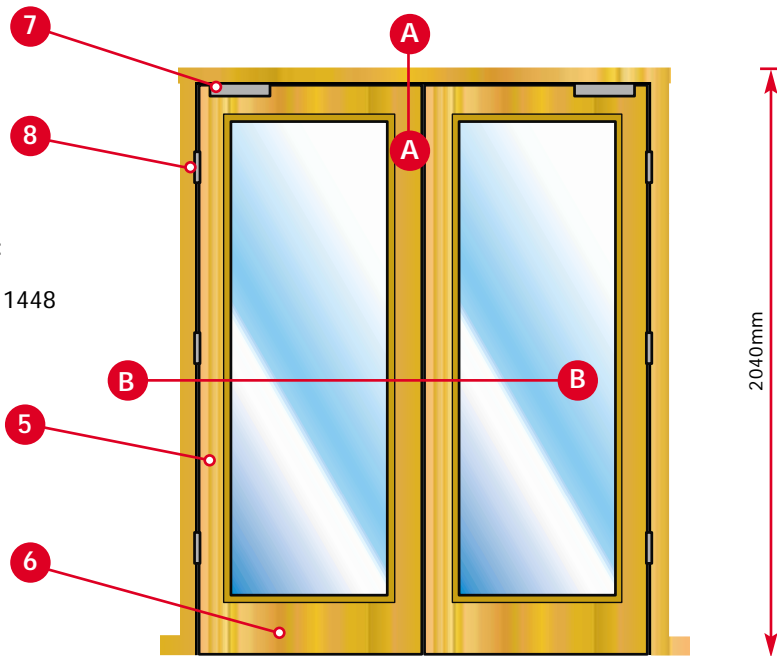
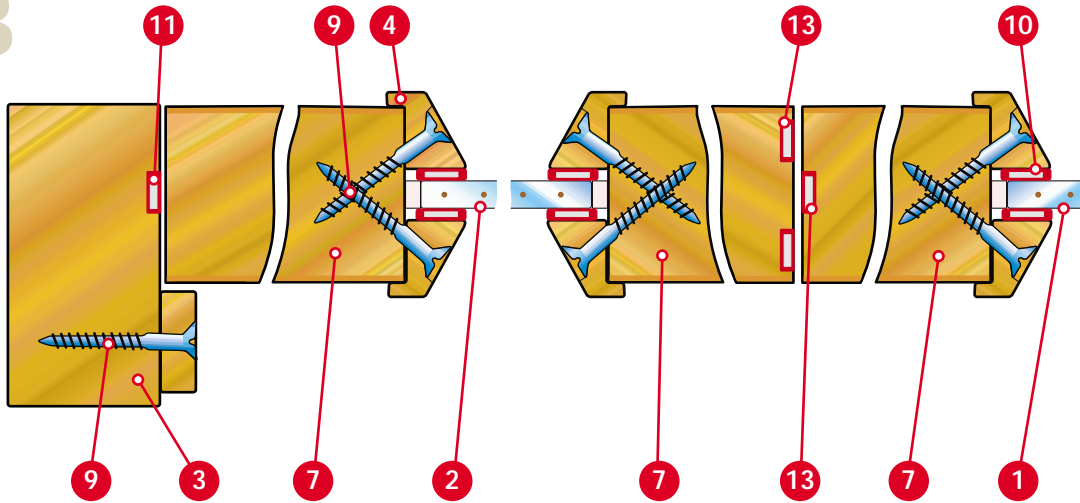
Length not to exceed 500mm

Note: Larger apertures may be possible. Please refer to our Technical Department for full details.

A-A



B-B



As specified in:  
Pilkington  
Assessment FR 1448

KEY TO FIGURES

- |   |   |                             |
|---|---|-----------------------------|
| 1 6mm PYROSHEILD Safety Clear glass   | 6 81mm wide top rail and 165mm wide bottom rail   | 10 PYROGLAZE 30 10 x 3      |
| 2 7mm PYROSHEILD Safety Texture glass   | 7 BRITON 2003/S overhead closer   | 11 PYROSTRIP 500 PSA 15 x 4 |
| 3 80 x 44mm Utile hardwood frame plus 12mm planted stop (measured minimum density 650kg/m³) | 8 100 x 35mm steel butt hinges with intumescent pads behind each hinge flap                           | 12 PYROSTRIP 500 PSA 25 x 4 |
| 4 20 x 19mm Utile hardwood glazing beads with a 3mm bolection return                        | 9 38mm No.8 countersunk steel wood screws at nominal 150mm centres, approximately 45° to the vertical | 13 PYROSTRIP 100 PSA 10 x 4 |
| 5 81 x 44mm Douglas Fir softwood stiles (nominal density 530 kg/m³)                         |   |                             |

## Finishes

Standard lengths:-

- 1000mm,
- 1050mm,
- 2050mm,
- 2100mm.

Colours:-

-  White,
-  Dark Brown,
-  Light Brown,
-  Cream,
-  Black,
- Red.

Colours shown are for guidance only, please request samples for full colour accuracy.

Non standard lengths and colours are available on request.

## Technical Services

Mann McGowan can advise on the use and application of Pyroglaze 30 or any other of our products. Please contact our Technical Advisory Service.

In addition, the company provides CPD Seminars to interested parties.

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

*Pyroglaze is a registered trade mark of Mann McGowan.*

*The information and images on this leaflet are the property of Mann McGowan and cannot be reproduced or copied in any form without prior written permission of the Directors.*

*Visit our web site at [www.mannmcgowan.co.uk](http://www.mannmcgowan.co.uk)*

## Ordering

Pyroglaze 30 can be ordered directly from our Sales Office. By telephone, fax or email.

IFC 92069/A	Pyran Glass	Glazed Screens/Doors	30 minutes	Mann McGowan
WFRC C82810	Pyrodur	Pyrovista Glazed Screens	30 minutes	Mann McGowan
WFRC 82341	Various	Shaped apertures	30 minutes	Mann McGowan
IFC 93033	Firelite	Glazed Screens/Doors	30 minutes	Mann McGowan
IFC 92068/A	G.W.P.P.	Glazed Screens/Doors	30 minutes	Mann McGowan
FR1265 B	G.W.P.P.	Glazed Screens	37 minutes	Mann McGowan
WFRC 107221	Pyroswiss	Pyrovista Glazed Screens	39 minutes	Mann McGowan
WFRC 108229	Various	Pyrovista Glazed Screens	30 minutes	Mann McGowan
WFRC 82017	Various	Pyrovista Glazed Screens	30 minutes	Mann McGowan
WFRC 81800	Various	Pyrovista Glazed Screens	30 minutes	Mann McGowan
FT/10094.1	GWPP	Pyrovista Glazed Screens	42 minutes	Mann McGowan
WFRC 102079	Pyroshield	Timber Doorsets	30 minutes	Magnet Joinery
FR1295	Pyroshield	Glazed Screen/Doors	30 minutes	Pilkington
FR1448	Pyroshield	Glazed Screen/Doors	30 minutes	Pilkington
FEA/F96110A	Various	Various Door Types	30 minutes	Timbmet



Member Glass  
& Glazing Federation

**MANN MCGOWAN**  
Advanced Intumescent Technology

Certificate No: 93/2172 FIRAS MEMBER

Intumescent House, 9 Springlakes Estate, Deadbrook Lane, Aldershot, Hampshire GU12 4UH England  
Telephone: Aldershot +44 (0)1252 333601 • Fax: Aldershot +44 (0)1252 322724  
• Email: [technical@mannmcgowan.co.uk](mailto:technical@mannmcgowan.co.uk) • website: [www.mannmcgowan.co.uk](http://www.mannmcgowan.co.uk)