CERTIFICATE OF APPROVAL
No CF 5287

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

PYROPLEX LIMITED

The Furlong, Droitwich, Worcestershire WR9 9BG
Tel: 01905 795 432 Fax: 01905 791 878
www.pyroplex.com

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR	**TS25**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman - Management Council

Issued: 15th December 2014
Valid to: 14th December 2019

CERTIFICATE No CF 5287
PYROPLEX LIMITED

Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

This Certificate of Approval relates to the contribution to fire resistance of the Pyroplex 60 Minute Fire Glazing Seal System when used in timber doorsets, for periods of 60 minutes integrity (and where applicable insulation), as defined in BS 476: Part 22: 1987 subject to the undermentioned conditions.

This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'

This product is approved on the basis of:

a) Initial type testing
b) A design appraisal against TS25
c) Certification of quality management system to BS EN ISO 9001: 2008
d) Inspection and surveillance of factory production control
e) Audit Testing in accordance with TS25

This Certificate of Approval must be read in conjunction with CERTIFIRE Technical Schedule TS25, Fire Resistant Glass, Glazing Systems and materials.

The Pyroplex 60 Minute Fire Glazing Seal System consists of the following essential elements:

a) Pyroplex Glass Edge Seals: 2 off, product reference 'R30174'
b) Pyroplex Glazing Liner: 1 off, 1.25 mm thick by 54 mm wide, product reference 'R30173'
c) Hardwood retaining beads (30 mm high and a width that will vary depending upon glass thickness) of a specific design and minimum density 640 kg/m3
d) For uninsulating wired glass - 50 mm long by 4 mm diameter steel screw fixings via the retaining beads at 150 mm centres
e) For insulating wired glass - 50 mm long by 1.6 mm diameter steel pin fixings via the retaining beads at 135 mm centres
f) Glass – specific glass types given in the appropriate section of this appraisal

The system is used at the perimeter of a pane of fire resisting glass to provide an effective seal between the glass and substrate within a door leaf.

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Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

This Certificate of Approval relates to solid timber based door leaf constructions consisting of timber or other cellulosic cores of not less than 54 mm overall leaf thickness.

The 'Pyroplex 60 Minute Fire Glazing Seal' system may be fitted in the manner described in this Certificate of Approval, to previously tested door leaves provided that the particular aspects of the door assembly are maintained. These are described below but are not exhaustive:

1. The doorset, including door frame and associated building hardware, should have achieved at least 60 minutes integrity when tested or subsequently assessed by one of the laboratories approved by CERTIFIRE as acceptable for this purpose to BS 476: Part 22: 1987.
2. If the proposed doorset is to be used in double-leaf configuration, the test or assessment evidence should be applicable to double-leaf configurations.
3. Likewise, if the proposed doorset is to be used in the unlatched configuration the available evidence should be applicable to unlatched doorsets.
4. The proposed doorset should also have included a glazed aperture or apertures of the intended size, shape, area and number.
5. When used to glaze CERTIFIRE approved doorsets which have smaller apertures than allowed in this certificate, the aperture sizes specified in the doorset certificate shall take precedence.
6. Glazing of the door must be in line with the CERTIFIRE certificated scope for the doorset.

If glazed in this way the proposed installation of the 'Pyroplex 60 Minute Fire Glazing Seal' system is not expected to affect the fire resistance performance of the leaf.

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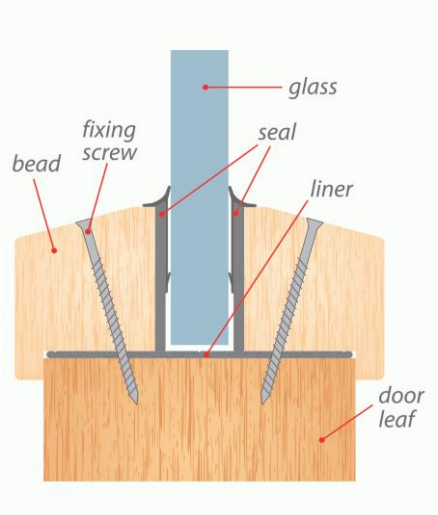
Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

The figure below shows a visual representation of how the Pyroplex 60 Minute Fire Glazing Seal System, as per installation.



Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

The Pyroplex 60 Minute Fire Glazing Seal System can be used on a wide range of uninsulated and insulated glasses. Refer to Table 1 – Approved Fire Resistant Glass Types for guidance on the field of application.

Door Leaf Constructions
The Pyroplex 60 Minute Fire Glazing Seal System can be glazed into a solid core construction with a minimum thickness of 54 mm.

Bead dimensions and timber species

- The bead must be hardwood with a minimum density of 640kg/m^3
- For 6 mm uninsulating glass – 30 mm high by 27 mm wide including a 5 mm by 5 mm bolection moulding and an 18° chamfer
- For 15 mm glass – 30 mm high by 22 mm wide including a 5 mm by 5 mm bolection moulding – square or chamfered
- For 23 mm glass – 30 mm high by 17 mm wide including a 5 mm by 5 mm bolection moulding – square or chamfered

Fixings
Uninsulating glasses use 50 mm long x 4 mm diameter screws at 150 mm centres and for Insulating glasses use 50 mm long x 1.6 mm diameter pins at 135 mm centres.

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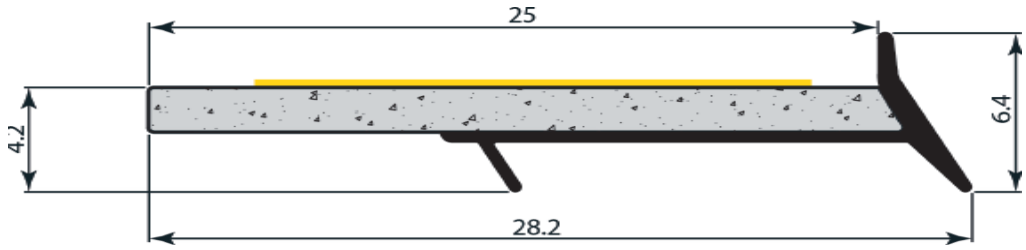
Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

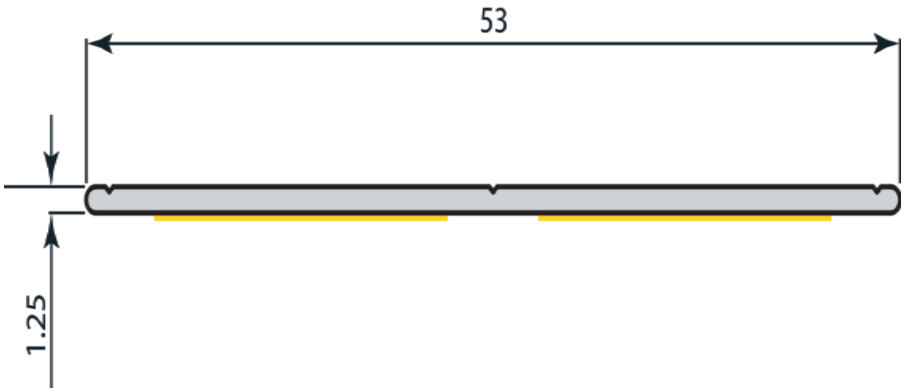
Pyroplex Glass Edge Seals – Pyroplex R30174

The glazing seal is manufactured from a Thermoplastic Synthetic resin containing intercalated graphite with additional char promoters and modifiers and extenders. The seal is provided with two integral glazing fins to accommodate tolerance variations in both glass and door core, whilst maintaining a low visual sightline. The seal is provided with a single pressure sensitive adhesive strip.



Pyroplex Glazing Liner – R30173

The glazing seal is manufactured from a Thermoplastic Synthetic resin containing intercalated graphite with additional char promoters and modifiers and extenders. The liner is provided with two pressure sensitive adhesive strips laminated on the back of the component.



Product Identification and Traceability

In accordance with the requirements of this technical schedule TS25, the components of the 'Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR' shall be ink jet printed with the respective product codes, references and date of manufacturer.

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Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR

This Certificate of Approval relates to the following glasses when used in conjunction with the 'Pyroplex 60 Minute Fire Glazing Seal System – PFG1HR' for a fire resistance performance of 60 minutes integrity (and insulation where applicable) at the maximum sizes shown in Table 1 below:

Table 1 – Approved Fire Resistant Glass Types			
Glass	**Maximum Aperture Height**	**Maximum Aperture Width**	**Maximum Aperture Area**
Uninsulating Glass - Pyroshield, Pyrostem or Pyran S	1050mm	250 mm	0.26 m^2
	Or		
	553 mm	553 mm	0.25 m^2
CERTIFIRE Approved 15 mm thick Fully Insulated Glass*	1058 mm	190 mm	0.18 m^2
	or		
	1050mm	250 mm	0.26 m^2
	or		
	553 mm	553 mm	0.25 m^2
CERTIFIRE Approved 23 mm thick Fully Insulated Glass*	1162 mm	210 mm	0.20 m^2
	or		
	1050mm	1050mm	1050mm
	or		
	553 mm	553 mm	553 mm

***Note: care must be taken to ensure glass is CERTIFIRE approved at the dimensions required. Sizes given for uninsulating glass options can also be used for the insulating glass variants.

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