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## CERTIFICATE OF APPROVAL

### No CF 5428

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

## SEALMASTER

(A division of Dixon International Group Ltd)  
Brewery Road, Pampisford, Cambridge CB22 3HG  
Tel: 01223 832851

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

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**CERTIFIED PRODUCT**  
Sealmaster FIREGLAZE Tape

**TECHNICAL SCHEDULE**  
TS25 Fire Resistant Glass,  
Glazing Systems and Materials

Signed and sealed for and on behalf of Exova (UK) Limited trading as  
Warrington Certification



Sir Ken Knight  
Chairman  
Impartiality Committee



Paul Duggan  
Certification Manager



Issued: 4<sup>th</sup> July 2016  
Valid to: 3<sup>rd</sup> July 2021

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## CERTIFICATE No CF 5428

### SEALMASTER

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#### SEALMASTER FIREGLAZE TAPE

This Certificate of Approval relates to the contribution to fire resistance of the Sealmaster FIREGLAZE Tape and when used in timber door leaves for periods of 60 and 90 minutes integrity (and insulation where applicable) and timber screens, for periods 60 minutes integrity (and insulation where applicable), 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:

- Initial type testing
- A design appraisal against TS25
- Registration to ISO 9001: 2008
- Inspection and surveillance of factory production control.
- 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.

Glazed elements utilising Sealmaster FIREGLAZE Tape require the following essential elements;

- Sealmaster FIREGLAZE Tape
- Beading system
- Retaining method
- Aperture lining system (not required for all variants)
- Fire resistant timber doorset (FD60 or FD90) or timber glazed screen system

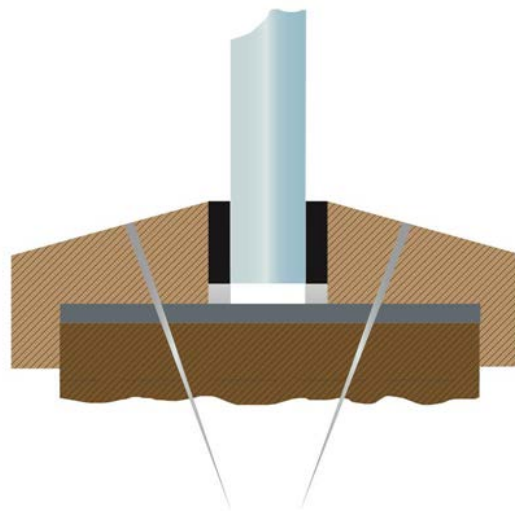
The systems are used at the perimeter of a pane of fire resisting glass to provide an effective seal between the glass and substrate within a door leaf or timber screen beading system.

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE – Timber Door Systems – 60 Minutes

The glass shall be glazed within a previously fire tested or CERTIFIRE approved timber based FD60 doorset utilising the following basic specification:

- Glass (see Tables 1 & 2 for type and allowable dimensions)
- Sealmaster FIREGLAZE Tape as glazing tape – 25 mm x 2.5 mm thick
- Sealmaster FIREGLAZE Tape as aperture liner – 54 mm x 2.5 mm thick
- No. 8 x 63 mm long screws at 150 mm maximum centres and 50mm from corners (fixed at 45° to glass).
- Bead dimensions – 30 mm high by 26 mm wide (dimension includes a 5 mm x 5 mm bolection)
- Glazing Bead from hardwood with a minimum density 640kg/m<sup>3</sup>, 20° chamfer (note: some glass options may allow MDF beads – see relevant table for options)
- Nominally 54 mm thick timber based FD60 door leaf\*



System may be used with and without non-combustible setting blocks.

The Sealmaster FIREGLAZE Tape can be used on a wide range of uninsulated and insulated glasses. Refer to Table's 1 & 2 – Approved Fire Resistant Glass Types for guidance on the field of application.

\* The doorset shall be CERTIFIRE approved or have test evidence for the inclusion of apertures of the proposed dimensions. Only solid cored timber based or cellulosic (i.e. flaxboard/chipboard/timber lamel) cores are suitable for being glazed with this system and if desirable may include a timber/MDF liner. **Core incorporating voids or hollow tubes should not be glazed using this system unless a 6 mm hardwood aperture liner (minimum density 640kg/m<sup>3</sup>) is fitted within the perimeter of the aperture.**

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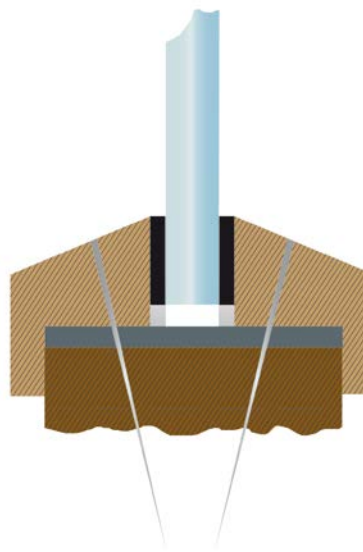
### SEALMASTER

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#### SEALMASTER FIREGLAZE TAPE – Timber Door Systems – 90 Minutes

The glass shall be glazed within a previously fire tested or CERTIFIRE approved timber based doorset utilising the following basic specification:

- Glass (see Tables 3 for type and allowable dimensions)
- Sealmaster FIREGLAZE Tape as glazing tape – 25 mm by 2.5 mm thick
- Sealmaster FIREGLAZE Tape as aperture liner – 64 mm by 2.5 mm thick
- Hardwood Liner: 6 mm thick, min. density 650kg/m<sup>3</sup> (required when particle cored doors are used, not required when joinery type doors with stiles/rails of min. density 650kg/m<sup>3</sup> are used)
- Glazing Beads\*
- Nominally 64 mm thick timber based FD90 door leaf#



System may be used with and without non-combustible setting blocks.

The Sealmaster FIREGLAZE Tape can be used on a wide range of uninsulated and insulated glasses. Refer to Table 3 – Approved Fire Resistant Glass Types for guidance on the field of application.

\* For bead and bead fixing specification see Table 3.

# The doorset shall be CERTIFIRE approved or have test evidence for the inclusion of apertures of the proposed dimensions. Only solid cored timber based or cellulosic cores are suitable for being glazed with this system. **Core incorporating voids or hollow tubes should not be glazed using this system unless a 6 mm hardwood aperture liner is fitted within the perimeter of the aperture.**

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## CERTIFICATE No CF 5428

### SEALMASTER

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#### SEALMASTER FIREGLAZE TAPE – Timber Door Systems

##### General Requirements – Timber Doorset Applications

There is no restriction to the direction of exposure for the glazing methods i.e. the systems are symmetrical.

Any number of panes may be included in the door leaves covered below providing the door leaf is capable of supporting this principle.

The Sealmaster FIREGLAZE Tape 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 or 90 minutes integrity when tested or subsequently assessed by one of the laboratories or approved by CERTIFIRE as acceptable for this purpose to BS 476: Part 22: 1987 or BS EN 1634-1: 2000.
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. For installation within particle core doors (i.e. comprising chipboard or flaxboard cores), an aperture liner (min. 6 mm thick with a min. density of 650kg/m<sup>3</sup>) is required. Solid timber cored doors or joinery type doors do not require an aperture liner providing the core/stiles/rails are of solid timber with a min. density of 650kg/m<sup>3</sup>. **Core incorporating voids or hollow tubes should not be glazed using this system unless a 6 mm hardwood aperture liner is fitted within the perimeter of the aperture.**

In this way the proposed use of the Sealmaster FIREGLAZE Tape with glazed apertures as provided within the scope of this Certificate is not expected to affect the performance of the leaf.

##### Production

This approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber based doorsets for periods of 60 minutes Integrity

This Certificate of Approval relates to the sizes of various glass types as shown in Table 1 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Bead Option	Performance Integrity/Insulation (minutes)	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pyroguard UK Ltd Pyrostem	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Pilkington UK Ltd Pyroshield 2	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Schott UK Ltd Pyran S – 6, 8, 10 & 12 mm	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Pyroguard UK Ltd 11mm Pyroguard EW60	Hardwood	60/0	1200	508	0.61
			1437	460	0.66
Pyroguard UK Ltd 7mm Pyroguard FD60	Hardwood	60/0	1500	250	0.375
Pilkington UK Ltd Pyrodur 60-10 (10 mm)	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Pilkington UK Ltd Pyrodur 60-20 (13 mm)	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Schott UK Ltd Pyranova 15 S2.0/2.1	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
AGC UK Ltd Pyrobelite 7	Hardwood or MDF	60/0	1100	440	0.440
AGC UK Ltd Pyrobelite 12	Hardwood	60/0	1733	271	0.433
			1550	517	0.775
Promat UK Ltd Pyrosec 7/60	Hardwood	60/0	1563	313	0.390
			1000	625	0.500
Promat UK Ltd Pyrosec 12/60	Hardwood	60/0	1196	528	0.61

**Table 1. Maximum Permitted Glass Dimensions**

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber based doorsets for periods of 60 minutes integrity and 30/60 minutes insulation

This Certificate of Approval relates to the sizes of various glass types as shown in Table 2 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Bead Option	Performance Integrity/Insulation (minutes)	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pilkington UK Ltd 15 mm Pyrostop 30/10	Hardwood	60/30	1733	271	0.433
			1550	517	0.775
Pilkington UK Ltd 18 mm Pyrostop 30/20	Hardwood	60/30	1733	271	0.433
			1550	517	0.775
Schott UK Ltd 15mm Pyranova 30 S3.0/3.1	Hardwood	60/30	1733	271	0.433
			1550	517	0.775
Pyroguard UK Ltd Pyroguard EI60 INT (23mm)	Hardwood	60/60	1320	500	0.590
Pyroguard UK Ltd Pyroguard EI60 EXT (27mm)	Hardwood	60/60	1320	500	0.590
Schott UK Ltd 23mm Pyranova 60 S3.0/3.1	Hardwood	60/60	1733	271	0.433
			450	450	0.20
Fire Glass UK Ltd Firesafe 60-23	Hardwood	60/60	1320	500	0.590
Fire Glass UK Ltd Firesafe 60-24 O	Hardwood	60/60	1320	500	0.590

**Table 2. Maximum Permitted Glass Dimensions**

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber based doorsets for periods of 90 minutes integrity and 0/30/90 minutes insulation

This Certificate of Approval relates to the sizes of various glass types as shown in Table 3 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Bead Option	Performance Integrity/Insulation (minutes)	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pilkington UK Ltd 10 mm Pyrodur EW60/10 & EW60/20	Note 1	90/0	2003	315	0.51
Vetrotech St.Gobain Int. 11 mm Contraflam DoorLite	Note 1	90/30	1849	289	0.46
Vetrotech St.Gobain Int. 27 mm Contraflam 60-3	Note 2	90/90	1686	800	1.33

**Note 1:** Beads from hardwood (640kg/m<sup>3</sup> min.), 35x29mm including a 10x5mm bolection, No.8x75mm screws at 150 mm centres (50mm from corners) at 25° to glass, 25° chamfer angle. Aperture to be lined with 6 mm hardwood (640kg/m<sup>3</sup> min.)

**Note 2:** Beads from hardwood (660kg/m<sup>3</sup> min.), 30x26mm including a 10x10mm bolection, No.10x75mm screws at 150 mm centres (50mm from corners) at 25° to glass, 22° chamfer angle

**Table 3. Maximum Permitted Glass Dimensions**



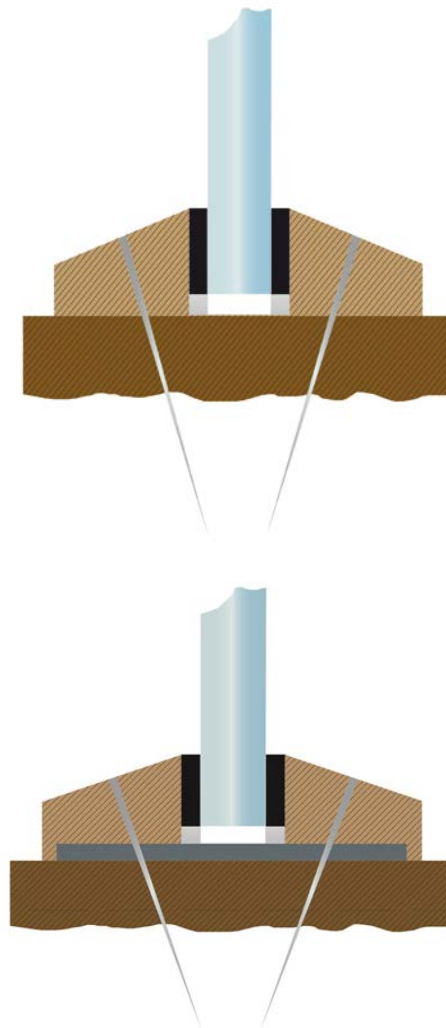
## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE – Timber Screens – 60 Minutes

The glass shall be glazed utilising the following basic specification:

- Glass (see Tables 4, 5 and 6 for type and allowable dimensions)
- Sealmaster FIREGLAZE Tape as glazing tape – 25 x 2.5mm
- Sealmaster FIREGLAZE Tape as aperture liner (where stated) – 63 mm x 2.5 mm
- Fixings at 150 mm centres, (No. 8 x 63 mm, angled at 45° unless otherwise stated)
- Fixing to be 50mm from corners in all cases
- Hardwood framing members – 80 x 40mm (640kg/m<sup>3</sup> min. unless specified otherwise)\*
- Hardwood Glazing Bead (640kg/m<sup>3</sup> min. unless specified otherwise)\*

System may be used with and without non-combustible setting blocks



\*For dimensions of frame, beads and fixing details see Tables 4, 5 & 6

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber screens for periods of 60 minutes integrity only

This Certificate of Approval relates to the sizes of various glass types as shown in Table 4 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Glazing Detail Frame: width x depth Bead: height x width (mm)	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pilkington UK Ltd Pyroshield 2*	<ul style="list-style-type: none"> <li>Beads: 27.5mm x 29 mm with a 20° chamfer.</li> <li>Base of beads rebated by 2.5mm deep to allow Sealmaster Fireglaze Tape, 63 x 2.5mm, to be included as an aperture liner</li> </ul>	2000	1000	2.0
Pyroguard UK Ltd Pyrostem*		2000	1000	2.0
Schott UK Ltd Pyran S 6 mm* Pyran S 8 mm* Pyran S 10 mm* Pyran S 12 mm*		2000	1000	2.0
Pyroguard UK Ltd 11 mm Pyroguard EW60		<ul style="list-style-type: none"> <li>Frame: 92x45mm</li> <li>Beads: 22mm x 20 mm (square or chamfered) fixed using No8x38mm screws at 200mm centres at a 30° angle</li> </ul>	1624	696
Pilkington UK Ltd Pyrodur 60-10	<ul style="list-style-type: none"> <li>Frame: 95x45mm</li> <li>Beads: 20mm x 40 mm (square or chamfered) fixed using No8x63mm screws at 150mm centres at a 30° angle</li> </ul>	2000	1000	1.79
AGC UK Ltd Pyrobelite 12	<ul style="list-style-type: none"> <li>Beads: 27.5mm x 29 mm (square or chamfered), fixed using No8x63mm screws at 150mm centres at a 30° angle</li> </ul>	2000	1000	2.0
Promat UK Ltd Pyrosec 12	<ul style="list-style-type: none"> <li>Beads 27.5mm x 29 mm with a 15-20° chamfer, fixed using No8x63mm screws at 150mm centres at a 30° angle</li> </ul>	2000	1000	2.0
Schott UK Ltd Pyranova 15 S2.0/2.1	<ul style="list-style-type: none"> <li>Frame: 100x40mm</li> <li>Beads: 20mm x 30 mm (square or chamfered) fixed using No8 x 70mm screws at 200mm centres at a 30° angle</li> </ul>	1650	500	0.82
		1000	1000	1.00

**Table 4. Maximum Permitted Glass Dimensions**

\*Sealmaster Fireglaze Liner required

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber screens for periods of 60 minutes integrity and 30 minutes insulation

This Certificate of Approval relates to the sizes of various glass types as shown in Table 5 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Performance Integrity/ Insulation (minutes)	Frame Section Size/Bead hwx/Timber Bead Type/Fixings	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pyroguard UK Ltd Pyroguard Insulation EI30 INT (15mm) & EI30 EXT (19mm)	60/30	Frame: 92x45mm, Beads:22mm x 36mm, square or chamfered	2000	1000	2.00
Pilkington UK Ltd 15 mm Pyrostop 30- 10 18 mm Pyrostop 30- 20	60/30	Beads:20x30mm	2000	1000	2.00
AGC UK Ltd Pyrobel 16	60/30	Perimeter Frame: 80x46mm, Transoms and mullions:75x54mm Beads:23mm x 25mm with 15° chamfer	2000	1000	2.00
AGC UK Ltd Pyrobel 17N & 17N EG	60/30	Perimeter Frame: 87x40mm, Transoms and mullions: 87x46mm Beads:30mm x 27mm with 15° chamfer	2000	1000	2.00
Promat UK Ltd Pyrosec 16	60/30	Perimeter Frame: 87x40mm Transoms and mullions: 87x46mm Beads:30mm x 27mm with 15° chamfer	2000	1000	2.00
Fire Glass UK Ltd 30-15, 30-16O, 30-19, 30-20O	60/30	Frame: 92x45mm, Beads:22mm x 36mm, square or chamfered	2000	1000	2.00
Schott UK Ltd Pyranova 30- S3.0/3.1	60/30	Frame: 68x20mm, Beads:18x22mm, No.8x63mm screws, 30° angle	1830	610	0.92

**Table 5. Maximum Permitted Glass Dimensions**

## CERTIFICATE No CF 5428 SEALMASTER

### SEALMASTER FIREGLAZE TAPE in timber screens for periods of 60 minutes integrity and 60 minutes insulation

This Certificate of Approval relates to the sizes of various glass types as shown in Table 6 below, when used in conjunction with the above system. Maximum pane dimensions are also subject to the limitations given.

Glass	Performance Integrity/ Insulation (minutes)	Frame Section Size/Bead hwx/Timber Bead Type/Fixings	Maximum Glass Height (mm)	Maximum Glass Width (mm)	Maximum Glass Area (m <sup>2</sup> )
Pyroguard UK Ltd Pyroguard Insulation EI60 INT (23mm) & EI60 EXT (27mm)	60/60	Frame: 92x45mm, Beads:20mm x 30mm, square or chamfered	2000	1000	2.00
Pilkington UK Ltd 23mm Pyrostop 60- 101 27mm Pyrostop 60- 201	60/60	Frame: 95 x 45mm Beads: 20 x 30mm 60mm screws at 200mm centres	2000	1000	2.00
AGC UK Ltd Pyrobel 25	60/60	Frame: 95x46mm, Beads:30mm highx27mm with 15° chamfer	2000	1000	2.00
Promat UK Ltd Pyrosec 25	60/60	Frame: 95x46mm, Beads:30mm x 27mm with 15° chamfer	2000	1000	2.00
Fire Glass UK Ltd 60-23, 60-24O, 60-27, 60-28O	60/60	Frame: 92x45mm, Beads:20mm x 30mm, square or chamfered	2000	1000	2.00
Schott UK Ltd Pyranova 60 – S2.0/2.1	60/60	Frame: 100x40mm Beads:20x30mm, Fixings:No.8x70mm screws, 30° angle	2000	1000	2.00
Schott UK Ltd Pyranova 60 – S3.0/3.1	60/60	Frame: 100x40mm Beads:20x35mm, No.8x70mm screws, 30° angle	2000	1000	2.00

**Table 6. Maximum Permitted Glass Dimensions**