



CERTIFICATE OF APPROVAL

No CF 6080

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

Polflam sp. z o. o.
Jeziorzany, Aleja Krakowska 3, Zip Code: 05-555 Tarczyn, Poland

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

Polflam EI30
Polflam EI30 IGU
Polflam EI60
Polflam EI60 IGU
Polflam BR EI30
Polflam BR EI60

TECHNICAL SCHEDULE

TS 25 Fire Resistant Glass,
Glazing Systems and Materials

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 28th November 2022
Audit Test Frequency: Every 3 years
Valid to: 27th November 2027



Glass	Application	Integrity - (mins)	Insulation - (mins)	Page No.
Polflam EI30 (20mm)	Timber Screens	30	30	3
Polflam EI30 (20mm) IGU	Timber Screens	30	30	4
Polflam EI60 (28mm)	Timber Screens	60	60	5
Polflam EI60 (28mm) IGU	Timber Screens	60	60	6
Polflam BR EI30	Timber Screens	30	30	7
Polflam BR EI60	Timber Screens	60	60	8
Polflam BR EI60	Steel Screens	60	60	9

1. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. This certificate of approval relates to the fire resistance, of Polflam glass when used in the above applications, as defined in BS 476: Part 22: 1987
3. This product is approved on the basis of:
 - i) Initial type testing.
 - ii) A design appraisal against TS25.
 - iii) Certification of quality management system to ISO 9001.
 - iv) Inspection and surveillance of factory production control.
 - v) Audit testing.
4. In the case of all glazed screens; all maximum height, width and area dimensions relate to the glass pane size.
5. Where the glass is installed in a timber or steel framed screen, the orientation of the screen shall be no more than $\pm 10^\circ$ from the vertical.
6. Glass shall be glazed as depicted on the applicable page of this document.
7. This certification applies to the glass only. The framing and glazing system requirements are also defined within each application. The design, size and configuration of the screen, into which the glass is installed, shall be covered by appropriate test data.
8. There is no restriction to the direction of exposure for the glass i.e. the glass is symmetrical. There may, however, be restrictions due to the requirements of a non-symmetrical framing system or certain IGU specifications (the specific page shall be consulted).
9. For timber constructions; where beading is depicted (on the relevant page of this certificate) on both faces of the glass – this must be strictly adhered to. i.e. there shall be no substitution of one of the beads for a rebated timber profile. Where pins are depicted, screws may be used instead. The opposite is not applicable. Ash and Beech are strictly prohibited from use in the manufacture of timber frames.

Polflam EI30 (20mm thick) in timber framed screens for 30 minutes integrity and insulation

The glass shall be glazed utilising the following basic specification:

Signed
V/014 & V/020



Issued: 28th November 2022
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1	Polflam EI30	
2	Silicone Dowsil 791 - Dow	
4	Intumescent tape Kerafix FXL200 20x2 - Rolf Kuhn	
5	Ceramic tape Kerafix 2000 15x4mm - Rolf Kuhn	
6	Nail 1,6x40mm/Screw 3,5x40mm	
7	Glazing bead min. 20x20/14mm - Wood >560kg/m ³	
8	Laminated profile min. 33x68mm - Wood >560kg/m ³ (Rebated profile possible)	
9	Anchor 7,5x152mm (rigid wall) / Screw 4,8x120 (flexible wall)	
10	Aerated concrete masonry ≥120mm / flexible wall EI30	
11	Mineral wool density ≥31kg/m ³	

Polflam EI30 #20mm

Polflam EI30 #22mm

Table 1 – Maximum Permitted Glass Dimensions			
	Max Height (mm)	Max Width (mm)	Max Area (m ²)
Landscape	1800 (at 3000 wide)	3600 (at 1500 high)	5.4
Portrait	4200 (at 1500 wide)	1800 (at 3500 high)	6.3

Note: The timber shall be a hardwood with a minimum density of 560kg/m³.

Note: For pane dimension above 3000mm high by 1500mm wide or 1500mm high by 3000mm wide the glass pane shall be the 22mm thick variant.

Polflam EI30 (20mm thick) IGU in timber framed screens for 30 minutes integrity and insulation

The glass shall be glazed utilising the following basic specification:

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V/014 & V/020

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1	Polflam EI30 IGU
2	Silicone Dowsil 791 - Dow
4	Intumescent tape Kerafix FXL200 20x2 - Rolf Kuhn
5	Ceramic tape Kerafix 2000 15x4mm - Rolf Kuhn
6	Nail 1,6x40mm/Screw 3,5x40mm
7	Glazing bead min. 20x20/14mm - Wood >560kg/m ³
8	Laminated profile min. 33x XX mm - Wood >560kg/m ³ (Rebated profile possible)
9	Anchor 7,5x152mm (rigid wall) / Screw 4,8x120 (flexible wall)
10	Aerated concrete masonry ≥120mm / flexible wall EI30
11	Mineral wool density ≥31kg/m ³

Polflam EI30 IGU

Polflam EI30 TGU

Polflam EI30 DGU

Gas filling

- Glass (with or without coating)
 - Float ≥ 4mm
 - ESG ≥ 4mm
 - VSG ≥ 4mm max. 6 x foil
- Glass (with or without coating)
 - Float ≥ 4mm
 - ESG ≥ 4mm
- Spacer (8 - 20 mm)
 - alu
 - steel
 - pvc
 - composite

Table 2 – Maximum Permitted Glass Dimensions

	Max Height (mm)	Max Width (mm)	Max Area (m ²)
Landscape	1800 (at 3000 wide)	3600 (at 1500 high)	5.4
Portrait	4200 (at 1500 wide)	1800 (at 3500 high)	6.3

Note: The timber shall be a hardwood with a minimum density of 560kg/m³.

Note: For pane dimension above 3000mm high by 1500mm wide or 1500mm high by 3000mm wide the glass pane shall be the 22mm thick variant.

Note: The fire resistant pane must be oriented towards the fire risk side.

Polflam EI60 (28mm thick) in timber framed screens for 60 minutes integrity and insulation

The glass shall be glazed utilising the following basic specification:

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1	Polflam EI60
2	Silicone Dowsil 791 - Dow
4	Intumescent tape Kerafix FXL200 30x2 - Rolf Kuhn
5	Ceramic tape Kerafix 2000 15x4mm - Rolf Kuhn
6	Nail 1,6x40mm/Screw 3,5x40mm
7	Glazing bead min. 27x20/14mm - Hardwood >650kg/m ³
8	Laminated profile min. 33x90mm - Hardwood >650kg/m ³ (Rebated profile possible)
9	Anchor 7,5x152mm (rigid wall) / Screw 4,8x120 (flexible wall)
10	Aerated concrete masonry ≥150mm / flexible wall EI60
11	Mineral wool density ≥31kg/m ³

Table 3 – Maximum Permitted Glass Dimensions			
	Max Height (mm)	Max Width (mm)	Max Area (m ²)
Landscape	1800 (at 3000 wide)	3600 (at 1500 high)	5.4
Portrait	4200 (at 1500 wide)	1800 (at 3500 high)	6.3

Note: The timber shall be a hardwood with a minimum density of 650kg/m³.

Note: For pane dimension above 3000mm high by 1500mm wide or 1500mm high by 3000mm wide the glass pane shall be the 30mm thick variant.

Polflam EI60 (28mm thick) IGU (including TGU) in timber framed screens for 60 minutes integrity and insulation

The glass shall be glazed utilising the following basic specification (the below example is for a TGU):

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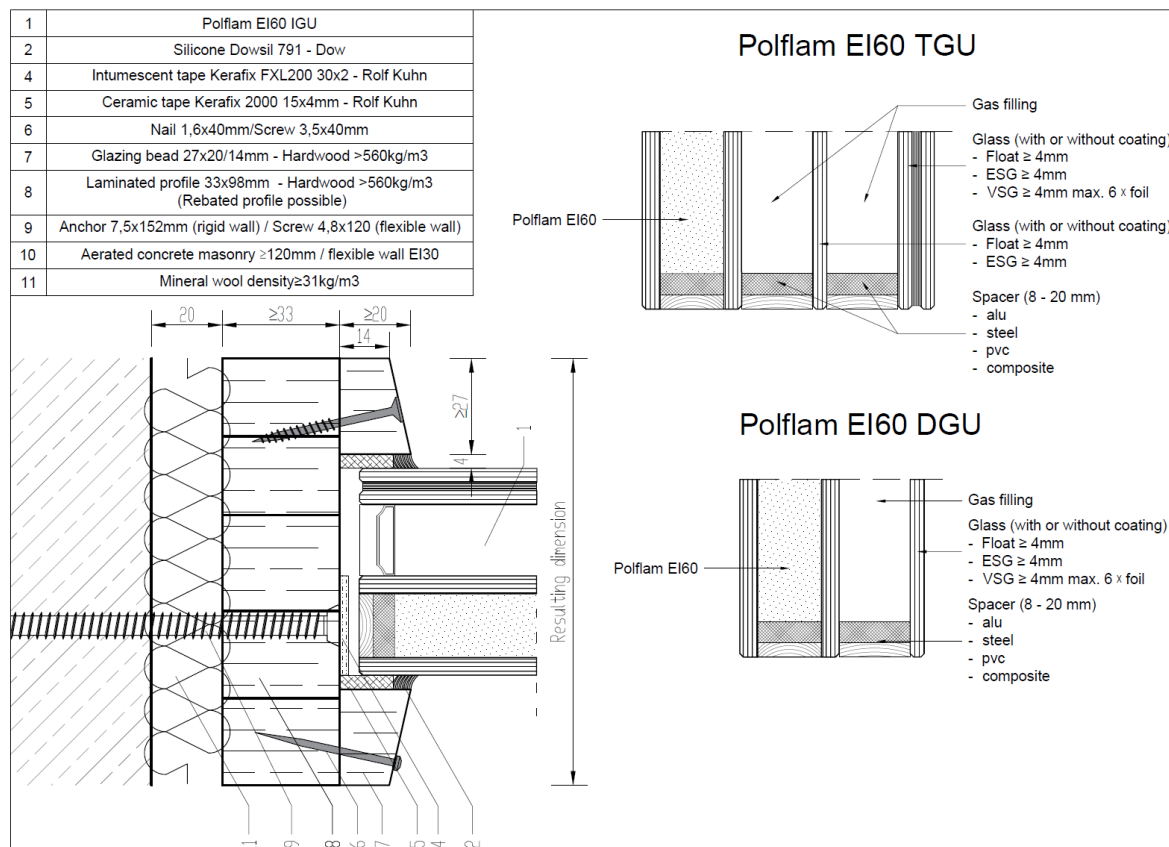


Table 4 – Maximum Permitted Glass Dimensions			
	Max Height (mm)	Max Width (mm)	Max Area (m ²)
Landscape	1800 (at 3600 wide)	3600 (at 1800 high)	5.44
Portrait	4200 (at 1800 wide)	1800 (at 4200 high)	6.35

Note: The timber shall be a hardwood with a minimum density of 650kg/m³.

Note: For pane dimension above 3000mm high by 1500mm wide or 1500mm high by 3000mm wide the glass pane shall be the 30mm thick variant.

Note: The spacer bars may be steel, aluminium or TGI.

Polflam BR EI30 (30mm thick) butt-jointed system in timber framed screens for 30 minutes integrity and insulation

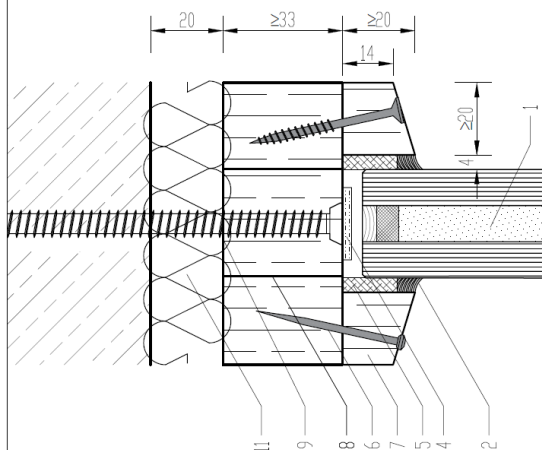
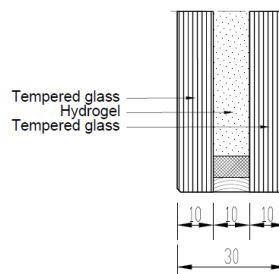
The glass shall be glazed utilising the following basic specification:

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1	Polflam BR EI30
2	Silicone Dowsil 791 - Dow
4	Intumescent tape Kerafix FXL200 20x2 - Rolf Kuhn
5	Ceramic tape Kerafix 2000 15x4mm - Rolf Kuhn
6	Nail 1,6x40mm/Screw 3,5x40mm
7	Glazing bead min. 20x20/14mm - Wood >560kg/m ³
8	Laminated profile min. 33x78mm - Wood >560kg/m ³ (Rebated profile possible)
9	Anchor 7,5x152mm (rigid wall) / Screw 4,8x120 (flexible wall)
10	Aerated concrete masonry ≥120mm / flexible wall EI30
11	Mineral wool density ≥31kg/m ³

Polflam BR EI30 #30mm



BR EI30 Connection

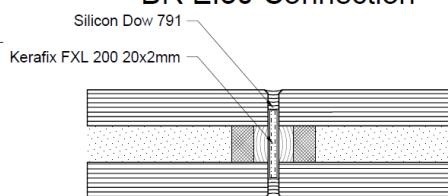


Table 5 – Maximum Permitted Glass Dimensions

Max Height (mm)	Max Width (mm)	Max Area (m ²)
4200 (at 2000 wide)	2400 (at 3500 high)	8.47

Note: The timber shall be hardwood with a minimum density of 560kg/m³.

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Polflam BR EI60 (38mm thick) butt-jointed system in timber framed screens for 60 minutes integrity and insulation

The glass shall be glazed utilising the following basic specification:

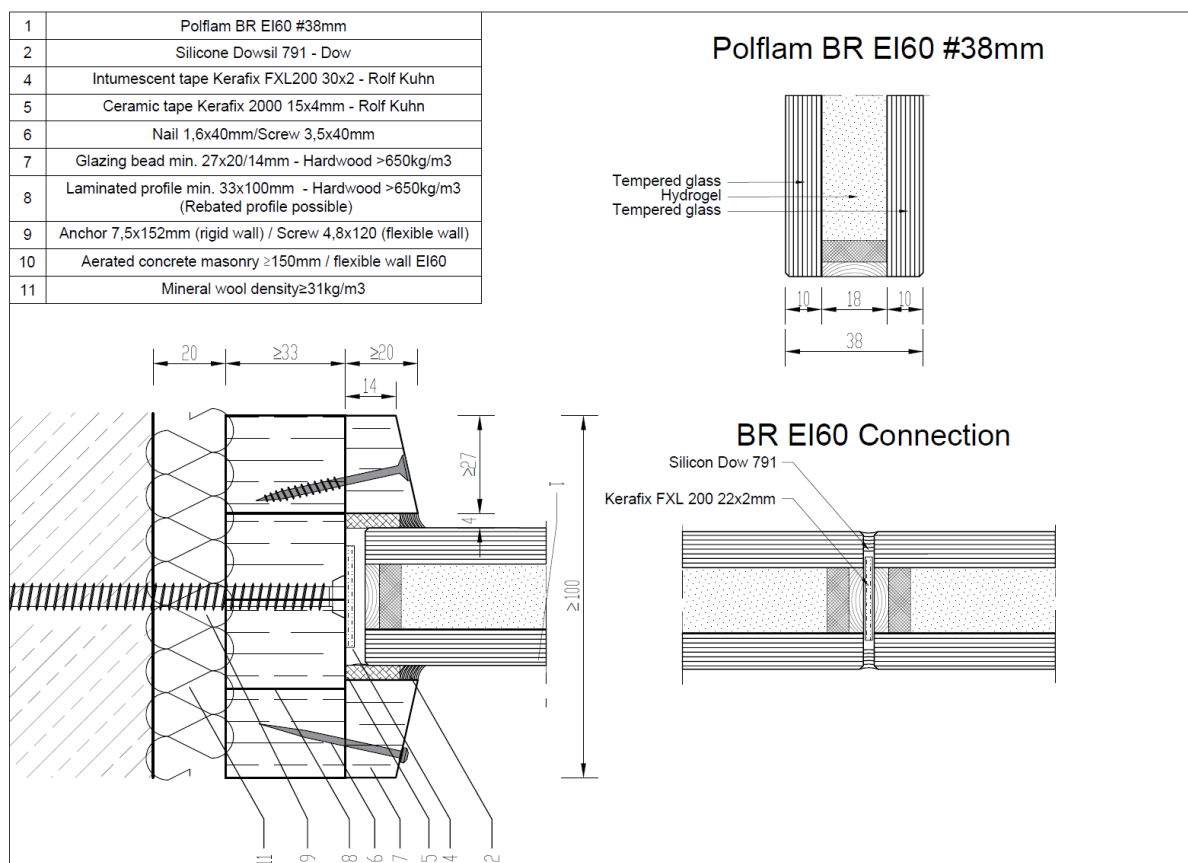


Table 6 – Maximum Permitted Glass Dimensions		
Max Height (mm)	Max Width (mm)	Max Area (m ²)
4200 (at 2000 wide)	2400 (at 3500 high)	8.47

Note: The timber shall be hardwood with a minimum density of 650kg/m³.

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Polflam BR EI60 (35mm thick) butt-jointed system in steel framed screens for 60 minutes integrity and insulation

The glass shall be installed into a previously tested or CERTIFIRE approved framing system (which is covered appropriately by test or Warringtonfire assessment evidence) using pressure plate glazing, screw-fixed or clip-on retaining beads, see example below. The glass shall be glazed into the screen as described in the table below and set on non-combustible setting blocks to determine the correct edge cover.

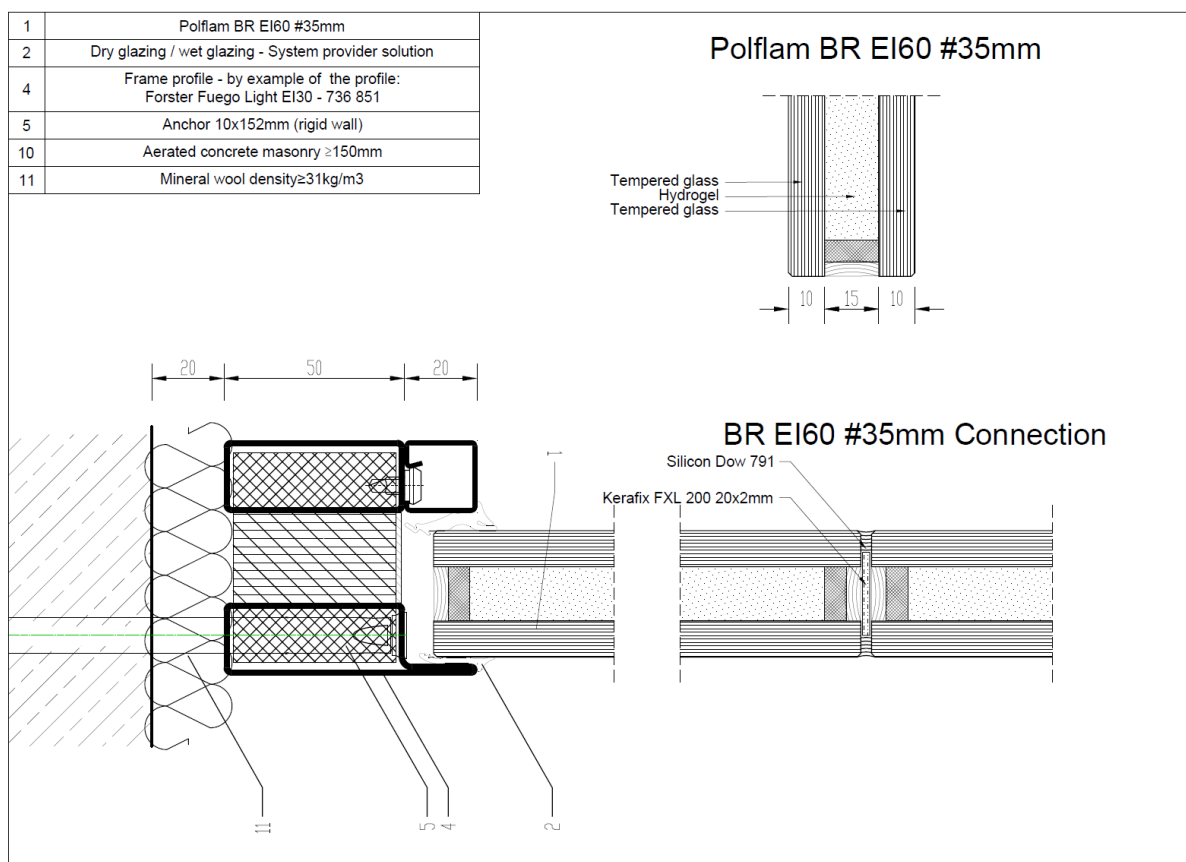


Table 7 – Maximum Permitted Glass Dimensions		
Max Height (mm)	Max Width (mm)	Max Area (m ²)
3500 (at 2000 wide)	2000 (at 3500 high)	7.0

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