POLFLAM TIMBER

60 & 120 MINUTE FIRE-RATED TIMBER SYSTEM FOR MODERN ARCHITECTURE

Natural warmth meets proven fire performance

POLFLAM TIMBER systems combine the beauty of real wood with the reliability of POLFLAM fire-resistive glass, providing elegant transparency with certified fire protection up to 120 minutes.

KEY FEATURES

- Interior Use – Ideal for partitions, corridors, and other interior glazed applications
- Fire-resistance ratings: 60 min / 120 min
- Intertek-listed to UL 263 / ASTM E119 / CAN-ULC S101
- Clean, elegant laminated hardwood profiles with min 40.6 lb/ft^3 (650 kg/m^3) density
- Compatible with POLFLAM 60 & 120 and POLFLAM VIEW 60 &120 butt-joint glass (MONO and IGU)
- For non-loadbearing interior partitions in masonry or drywall assemblies
- Hose-stream tested and approved for architectural use
- Fast lead times and flexible sizing
- Optional low-iron glass for maximum clarity

Maximum Framing / Glass Sizes:

Fire Rating	Max. Width Framing	Max. Height Framing	Glass Type	Max. Width Glass	Max. Height Glass	Max. Area Glass
60 minutes	Unlimited	depending on design requirements	POLFLAM 60	118 1/8 in. (3000 mm)	118 1/8 in. (3000 mm)	6975 sq. in. (4.50 m²)
			POLFLAM VIEW 60	59 1/16 in. (1500 mm)	119 1/2 in. (3036 mm)	7053 sq. in. (4.55 m²)
120 minutes	Unlimited	depending on design requirements	POLFLAM 120	118 1/8 in. (3000 mm)	118 1/8 in. (3000 mm)	6975 sq. in. (4.50 m²)
			POLFLAM VIEW 120	59 1/16 in. (1500 mm)	119 1/2 in. (3036 mm)	7053 sq. in. (4.55 m²)

Technical Specifications of Fire-Resistive Glass:

POLFLAM	60	VIEW 60	120	VIEW 120
Nominal thickness	1 3/16 in. (30 mm)	1 1/2 in. (38 mm)	1 5/8 in. (42 mm)	1 15/16 in. (50 mm)
Thickness tolerance	±1/16 in. (±2 mm)	±1/8 in. (±3 mm)	±1/8 in. (±3 mm)	±1/8 in. (±3 mm)
Weight	10.6 lbs/ft² 52 kg/m²	15.4 lbs/ft² 75 kg/m²	13.7 lbs/ft² 67 kg/m²	18.4 lbs/ft² 90 kg/m²
Fire-Resistance Rating	60 min	60 min	120 min	120 min
Certification	Intertek	Intertek	Intertek	Intertek
Listing Standard	UL 263, ASTM E119, CAN/ULC S101 and EN 1364-1	UL 263, ASTM E119, CAN/ULC S101 and EN 1364-1	UL 263, ASTM E119, CAN/ULC S101 and EN 1364-1	UL 263, ASTM E119, CAN/ULC S101 and EN 1364-1
Visible Light Transmittance	86%	84%	84%	81%
U-value [Btu/h•ft²•F]	0.64 (Winter) 0.60 (Summer)	0.62 (Winter) 0.58 (Summer)	0.52 (Winter) 0.49 (Summer)	0.51 (Winter) 0.48 (Summer)
STC Rating	42	42	45	46
Impact Safety Compliance	CPSC 16 CFR 1201 (Category II) ANSI Z97.1 (Class A)	CPSC 16 CFR 1201 (Category II) ANSI Z97.1 (Class A)	CPSC 16 CFR 1201 (Category II) ANSI Z97.1 (Class A)	CPSC 16 CFR 1201 (Category II) ANSI Z97.1 (Class A)
Storage and Transportation Temperature Range	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F

Optional with Low-Iron glass

Precision Edge Detailing for Seamless Aesthetics

POLFLAM VIEW fire-resistive glass is fabricated with all edges ground smooth for safe handling and clean integration. A high-quality ceramic edge print, approximately 14 mm (0.55 in.) wide on the vertical edges, ensures a visually seamless connection between adjacent panes – ideal for modern, uninterrupted glazed wall applications.

POLFLAM and POLFLAM VIEW fire-resistive glass is permanently laser-marked for full traceability and compliance.

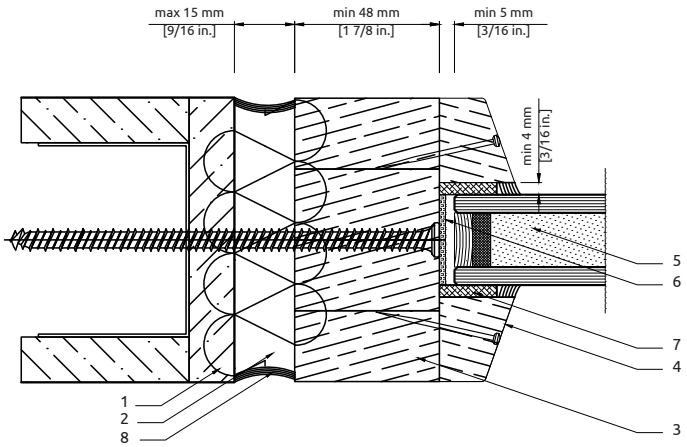
16 CFR 1201 II
ANSI Z97.1-2015
CAN/CGSB 12.1-2022
1/4 U A SGCC 10060
UL 10B | 10C | 263
D-H-T-60 | W-60

16 CFR 1201 II
ANSI Z97.1-2015
CAN/CGSB 12.1-2022
1/4 U A SGCC 10060
UL 263
W-120

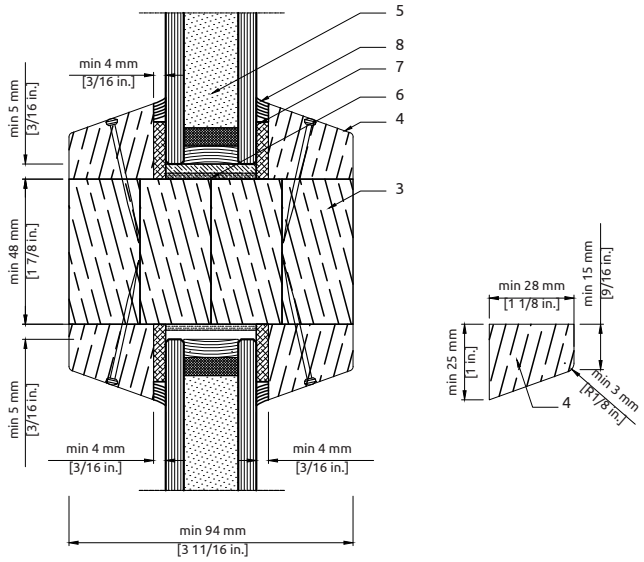
Listings:
Classified and labeled by INTERTEK
Spec ID 89997 – Design No. PSZ/FGP 60-08
Spec ID 89997 – Design No. PSZ/FGP 120-08
Tests performed in accordance with UL 263 / ASTM E119 / CAN/ULC S101

POLFLAM TIMBER 60
Spec ID 89997
Design No. PSZ/FGP 60-08
(60 minute rating)

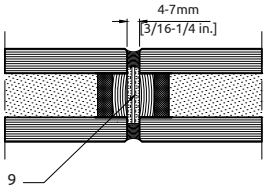
Jamb Details



Horizontal/Vertical Mullion Detail



Butt-joint Detail



1. **WALL ASSEMBLY:** Minimum 1-hour fire-resistance-rated masonry or gypsum wall assembly.
2. **MINERAL WOOL:** Mineral wool insulation shall be tightly packed into the perimeter joint between the partition assembly and the supporting wall, with a maximum joint width of 15 mm (5/8 in.). Mineral wool shall have a minimum bulk density of 31 kg/m³ (2.5 pcf) and shall be noncombustible in accordance with ASTM E136.
3. **TIMBER PROFILE STRUCTURE:** The framing shall consist of laminated hardwood profiles with a minimum depth of 94 mm (3-11/16 in.) and width of 48 mm (1-7/8 in.), fabricated from oak or other hardwood species with a minimum density of 650 kg/m³ (40.6 lb/ft³). Joints in the hardwood structure shall be constructed as follows: L-joints shall be finger-jointed and secured with timber adhesive (Pattex or equivalent) and two Ø7.5 × 112 mm (5/16 × 4-3/8 in.) screws; Cross-joints shall be butt-jointed with timber adhesive, four Ø7.5 × 112 mm (5/16 × 4-3/8 in.) screws and one Ø10 × 100 mm (3/8 × 4 in.) dowel; T-joints shall be butt-jointed with timber adhesive, two Ø7.5 × 112 mm (5/16 × 4-3/8 in.) screws and one Ø10 × 50 mm (3/8 × 2 in.) dowel. The structure shall be anchored to the supporting wall with Ø7.5 × 152 mm (5/16 × 6 in.) screws, installed 100 mm (4 in.) from member ends and maximum 350 mm (14 in.) on center.
4. **GLAZING BEADS:** Laminated hardwood glazing beads, minimum 25 mm (1 in.) deep × 28 mm (1-1/8 in.) wide, fabricated from oak or other hardwood species with a minimum density of 650 kg/m³ (40.6 lb/ft³), shall be installed on both faces of the partition. Beads shall be secured to the timber profile structure with 16 Gauge × 2 in. (Ø1.6 × 50 mm) finish nails, driven at a 45° angle, located 50 mm (2 in.) from each end and maximum 150 mm (6 in.) on center.
5. **CERTIFIED MANUFACTURER:** Polflam Sp. z o.o.

   a. **CERTIFIED PRODUCT:** POLFLAM 60

   FIRE RESISTANT GLAZING PANES: Install Listed 1 Hour Fire-Resistant Rated POLFLAM 60, 30 mm (1-3/16 in.), thick glazing panes in the following max. size:
   POLFLAM 60 Max. Linear Dimension (width or height): 3000 mm (118-1/8 in.)
   POLFLAM 60 Max. Area: 4.50 m² (6975 sq. in.)

   b. **CERTIFIED PRODUCT** (Optional): POLFLAM VIEW 60

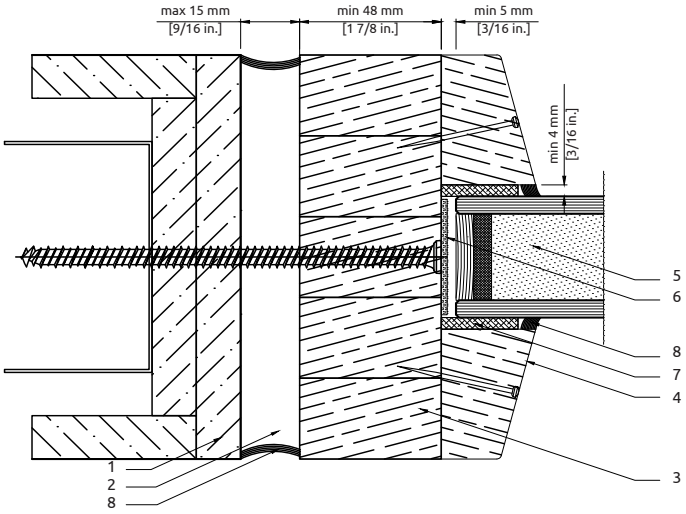
   FIRE RESISTANT GLAZING PANES: Install Listed 1 Hour Fire-Resistant Rated POLFLAM VIEW 60, 38 mm (1-1/2 in.), thick glazing panes in the following max. size:
   POLFLAM VIEW 60 Max. Width: 1500 mm (59-1/16 in.) x Max. Height: 3036 mm (119-1/2 in.)
   POLFLAM VIEW 60 Max. Area: 4.55 m² (7053 sq. in.)

   The glazing panes are installed on nominal 5 mm (3/16 in.) thick × 100 mm (4 in.) long setting blocks, fabricated from hardwood with a minimum density of 650 kg/m³ (40.6 lb/ft³), with the block width equal to the thickness of the glass. Blocks are positioned 100 mm (4 in.) from the bottom corners of the glazing panes.

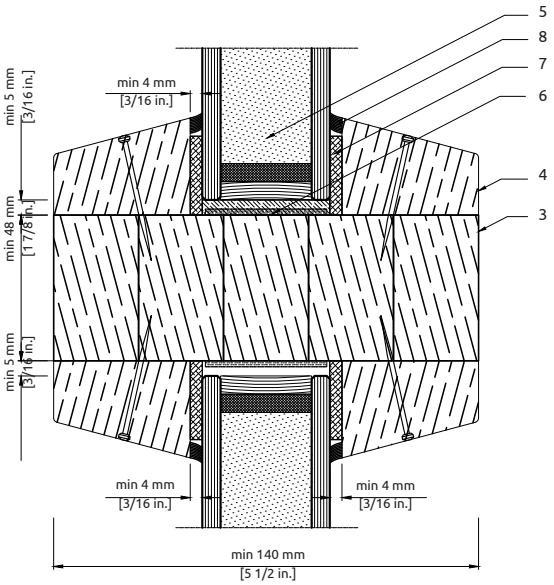
   NOTE – Double-glass units (DGU) and triple-glass units (TGU) incorporating tempered or laminated glazing are permitted. IGU and TGU configurations shall be installed with the non-fire-resistive glass oriented toward the unexposed side of the assembly only.
6. **INTUMESCENT TAPE:** Install intumescent tape (Ref: KERAFIX® FXL 200 or equivalent), minimum 2 mm (5/64 in.) thick, continuously around the perimeter between the lass edge and the hardwood profile structure (Item 3). The tape width shall be equal to the thickness of the glass.
7. **GLAZING TAPE:** Install 20 mm (13/16 in.) wide × 4 mm (5/32 in.) thick ceramic glazing tape (Ref: KERAFIX® 2000 or equivalent) continuously around the perimeter between the glass panes and the glazing beads, on both sides.
8. **SEALANT:** Install neutral-cure silicone sealant (Ref: DOWSIL® 791 or equivalent) between the hardwood profile structure and the supporting construction, and between the glazing beads and the glazing panes.
9. **BUTT-JOINT INTUMESCENT TAPE AND SEALANT** (Optional): Apply self-adhesive intumescent tape, 25 mm (1 in.) wide × 2 mm (1/16 in.) thick (Ref: KERAFIX® FXL 200 or equivalent), to the vertical butt joints between glazing panes, one strip applied to each pane. Apply neutral-cure silicone sealant (Ref: DOWSIL® 791 or equivalent) continuously along the vertical joints between the glazing panes.

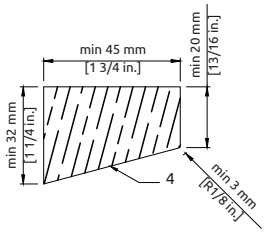
POLFLAM TIMBER 120
Spec ID 89997
Design No. PSZ/FGP 120-08
(120 minute rating)

Jamb Details

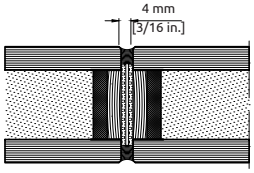


Horizontal/Vertical Mullion Detail





Butt-joint Detail



1. **WALL ASSEMBLY:** Minimum 2-hour fire-resistance-rated masonry or gypsum wall assembly.
2. **MINERAL WOOL:** Mineral wool insulation shall be tightly packed into the perimeter joint between the partition assembly and the supporting wall, with a maximum joint width of 15 mm (5/8 in.). Mineral wool shall have a minimum bulk density of 31 kg/m³ (2.5 pcf) and shall be noncombustible in accordance with ASTM E136.
3. **TIMBER PROFILE STRUCTURE:** The framing shall consist of laminated hardwood profiles having a minimum depth of 140 mm (5-1/2 in.) and a minimum width of 48 mm (1-7/8 in.), fabricated from oak hardwood or other hardwood species of equal or greater density (≥650 kg/m³ [40.6 lb/ft³]), such as beech, maple, or ash. Joints in the timber structure shall be formed as follows: L-joints shall be finger-jointed and secured with timber adhesive (Pattex or equivalent) and two 7.5 × 112 mm (5/16 × 4-3/8 in.) screws; cross-joints shall be butt-jointed with timber adhesive, six 7.5 × 112 mm (5/16 × 4-3/8 in.) screws, and two 10 × 100 mm (3/8 × 4 in.) dowels; T-joints shall be butt-jointed with timber adhesive, three 7.5 × 112 mm (5/16 × 4-3/8 in.) screws, and two 10 × 50 mm (3/8 × 2 in.) dowels.
   The structure shall be anchored to the supporting wall with 7.5 × 112 mm (5/16 × 4-3/8 in.) screws, installed 100 mm (4 in.) from member ends and maximum 500 mm (20 in.) on center.
4. **GLAZING BEADS:** Laminated hardwood glazing beads, minimum 32 mm (1-1/4 in.) deep by 45 mm (1-3/4 in.) wide, fabricated from oak or other hardwood species with a density ≥650 kg/m³ (40.6 lb/ft³), shall be installed on both faces of the partition. Beads shall be secured to the timber profile structure with 16 Gauge × 2 in. (Ø1.6 × 50 mm) finish nails driven at a 45° angle, located 50 mm (2 in.) from each end and maximum 150 mm (6 in.) on center.
5. **CERTIFIED MANUFACTURER:** Polflam Sp. z o.o.

   a. **CERTIFIED PRODUCT:** POLFLAM 120

   FIRE RESISTANT GLAZING PANES: Install Listed 2 Hour Fire-Resistant Rated POLFLAM 120, 42 mm (1-5/8 in.), thick glazing panes in the following max. size:
   POLFLAM 120 Max. Linear Dimension (width or height): 3000 mm (118-1/8 in.)
   POLFLAM 120 Max. Area: 4.50 m² (6975 sq. in.)

   b. **CERTIFIED PRODUCT** (Optional): POLFLAM VIEW 120

   FIRE RESISTANT GLAZING PANES: Install Listed 2 Hour Fire-Resistant Rated POLFLAM VIEW 120, 50 mm (1-15/16 in.), thick glazing panes from in the following max. size:
   POLFLAM VIEW 120 Max. Width: 1500 mm (59-1/16 in.) x Max. Height: 3036 mm (119-1/2 in.)
   POLFLAM VIEW 120 Max. Area: 4.55 m² (7053 sq. in.)

   The glazing panes are installed on nominal 5 mm (3/16 in.) thick × 100 mm (4 in.) long setting blocks, fabricated from hardwood with a minimum density of 650 kg/m³ (40.6 lb/ft³), with the block width equal to the thickness of the glass. Blocks are positioned 100 mm (4 in.) from the bottom corners of the glazing panes.

   NOTE – Double-glass units (DGU) and triple-glass units (TGU) incorporating tempered or laminated glazing are permitted. IGU and TGU configurations shall be installed with the non-fire-resistive glass oriented toward the unexposed side of the assembly only.
6. **INTUMESCENT TAPE:** Install intumescent tape (Ref: KERAFIX® FXL 200 or equivalent), minimum 2 mm (5/64 in.) thick, continuously around the perimeter between the glass edge and the hardwood profile structure (Item 3). The tape width shall be equal to the thickness of the glass.
7. **GLAZING TAPE:** Install 25 mm (1 in.) wide × 4 mm (5/32 in.) thick ceramic glazing tape (Ref: KERAFIX® 2000 or equivalent) continuously around the perimeter between the glass panes and the glazing beads, on both sides.
8. **SEALANT:** Install neutral-cure silicone sealant (Ref: DOWSIL® 791 or equivalent) between the hardwood profile structure and the supporting construction, and between the glazing beads and the glazing panes.
9. **BUTT-JOINT INTUMESCENT TAPE AND SEALANT** (Optional): Apply self-adhesive intumescent tape, 35 mm (1 3/8 in.) wide × 2 mm (1/16 in.) thick (Ref: KERAFIX® FXL 200 or equivalent), to the vertical butt joints between glazing panes, one strip applied to each pane. Apply neutral-cure silicone sealant (Ref: DOWSIL® 791 or equivalent) continuously along the vertical joints between the glazing panes.

NOTE: Details not to scale. The information provided herein is for reference only and is subject to change without notice.