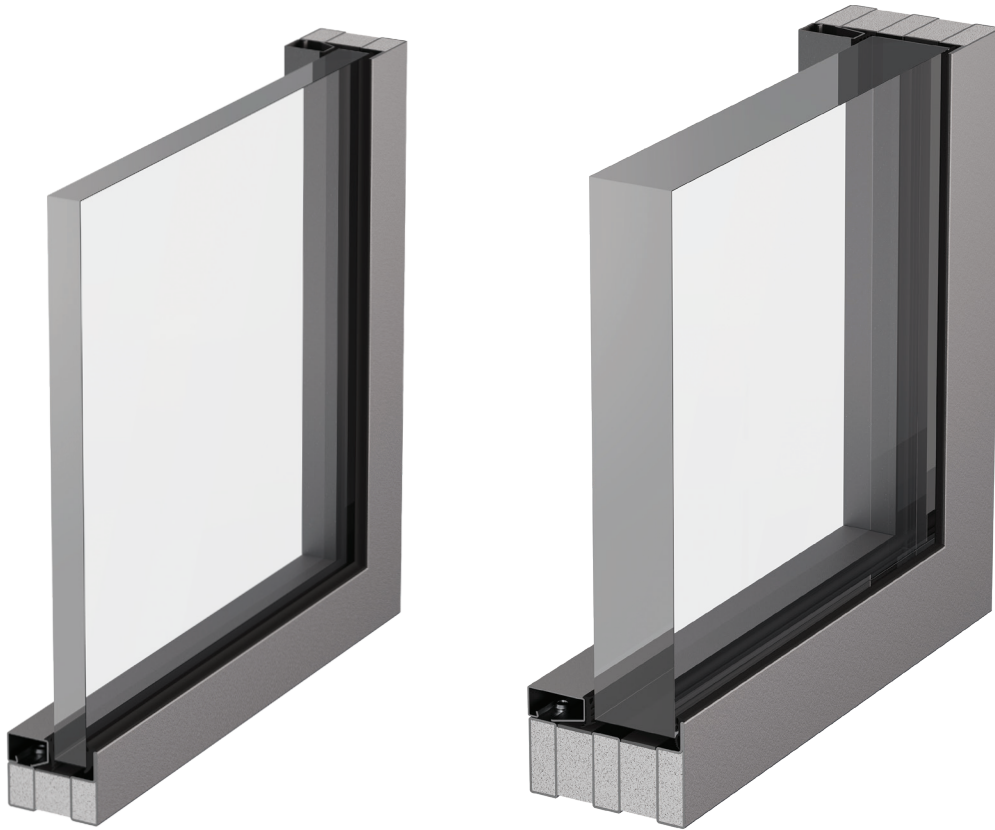


POLFLAM STL System

60 & 120 MINUTE FIRE-RESISTIVE GLAZING WALL



The POLFLAM STL 60 & 120 fire-rated systems combine sleek, slim-profile steel framing with the unmatched performance of POLFLAM fire-resistive glass and POLFLAM VIEW butt-joint glass. Engineered for 60- or 120-minute fire protection, these systems deliver maximum transparency with minimal sightlines, allowing light to flood interior spaces while meeting the most demanding safety codes. POLFLAM fire-resistive glass is impressively lightweight for easier handling and installation, without compromising strength or safety. Every panel is permanently laser-marked for full traceability and compliance, ensuring confidence from specification to completion. Designed for walls and full-height glazed partitions. POLFLAM STL offers the perfect balance of strength, style, and safety - built to perform and made to impress.

KEY FEATURES

- **Two Fire-Rating Options** – Available in both 60-minute and 120-minute fire protection
- **Slim Steel Frames** – Clean, minimal sightlines for a sleek, modern look
- **Flexible Glazing Choices** – Works with POLFLAM fire-resistive glass and POLFLAM VIEW butt-joint glass for uninterrupted views
- **Maximum Daylight** – Lets in more natural light for bright, open spaces
- **Wide Range of Uses** – Ideal for interior walls, doors, and full-height glazed partitions
- **Strong & Durable** – Rigid steel construction built to last
- **Sound Control Options** – Glass options available with enhanced acoustic performance
- **Seamless Aesthetics** – Uniform, refined lines that blend with any architectural style
- **Tested & Certified** – Meets recognized fire-safety standards for peace of mind

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 m ²)
			POLFLAM VIEW 60	59 1/16 in. (1500 mm)	119 1/2 in. (3036 mm)	7053 sq. in. (4.55 m ²)
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 m ²)
			POLFLAM VIEW 120	59 1/16 in. (1500 mm)	119 1/2 in. (3036 mm)	7053 sq. in. (4.55 m ²)

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/ft ² 52 kg/m ²	15.4 lbs/ft ² 75 kg/m ²	13.7 lbs/ft ² 67 kg/m ²	18.4 lbs/ft ² 90 kg/m ²
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·ft ² ·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

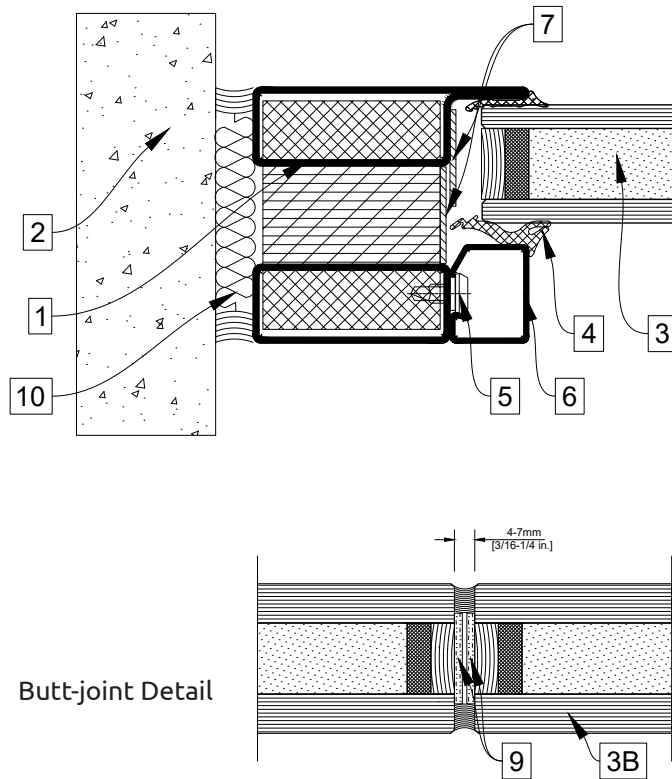
Spec ID 90002 - Design No. PSZ/FRG 60-04 (60 minute rating)

Spec ID 90002 - Design No. PSZ/FRG 120-04 (120 minute rating)

Tests performed in accordance with UL 263 / ASTM E119 / CAN/ULC S101



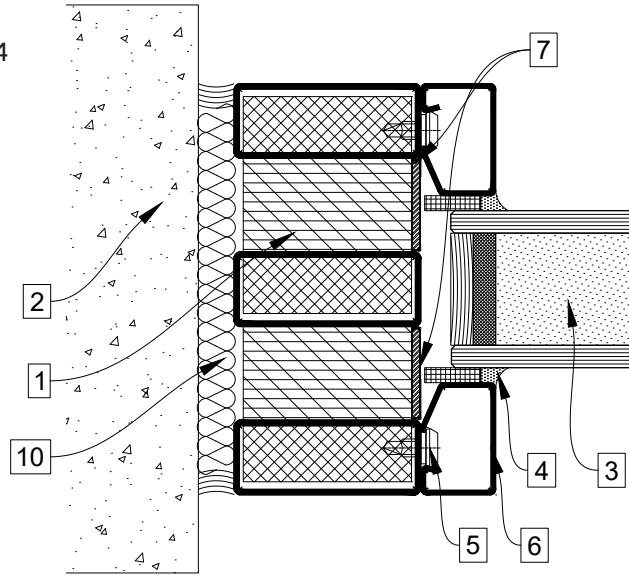
POLFLAM STL 60
 Spec ID 90002
 Design No. PSZ/FRG 60-04
 (60 minute rating)



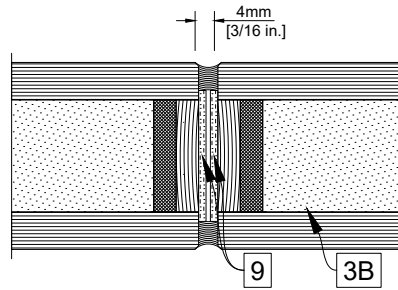
Butt-joint Detail

1. **CERTIFIED MANUFACTURER:** Polflam Sp. z o.o.
CERTIFIED PRODUCT: POLFLAM STL 60
 Install POLFLAM STL 60 steel framing members with a nominal depth of 2-9/16 in. (65 mm). Secure the framing members to the steel studs of the supporting construction using No. 10, 4 in. long, self-drilling, self-tapping bugle-head screws, spaced 18 in. (457 mm) on center.
 2. **SUPPORTING CONSTRUCTION:** Min. 1-hour fire rated wall assembly.
 3. **FIRE RESISTANT GLAZING MATERIAL:** Install one of the following:
 - a. 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. 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.) by Max. Height: 3036 mm (119 1/2 in.),
 POLFLAM VIEW 60 Max. area: 4.55 m² (7053 sq. in.)
- NOTE-** Double-glass units (DGU) and triple-glass units (TGU) incorporating tempered or laminated glazing are permitted. DGU and TGU configurations shall be installed with the non-fire-resistive glass oriented toward the unexposed side of the assembly only.
4. **GASKET OR TAPE:** Install EPDM glazing gaskets continuously around the glazing panes between the glazing beads on both sides, or apply self-adhering Kerafix 2000 glazing tape, nominal 5/8 in. (15 mm) wide x minimum 1/8 in. (3 mm) thick, between the glazing beads and the glazing material. Apply a continuous bead of 100% silicone sealant between the glazing beads and the glazing material.
 5. **SCREWS:** Fasten glazing beads using 5/8 in. (15 mm) long pan-head screws attached to the steel framing members, spaced 12 in. (305 mm) on center.
 6. **GLAZING BEADS:** Friction-fit nominal 16 GA steel glazing beads tightly along the perimeter, on the glazing material side, over the screws.
 7. **INTUMESCENT TAPE:** Apply self-adhesive intumescent tape in framing pockets with exposed insulation, as well as in the chambers directly exposed to the glass.
 8. **SETTING BLOCKS (Not Shown):** Install glazing panes on nominal 5 mm ± 2 mm (3/16 in. ± 3/32 in.) thick x 100 mm (3-15/16 in.) long hardwood or magnesium silicate setting blocks. The width of the setting blocks must be selected to match the glass thickness. Position setting blocks on steel support plates located 4 in. (100 mm) from each corner of the glazing.
 9. **BUTT JOINT INTUMESCENT TAPE AND SEALANT (with item 3B):** Apply self-adhesive intumescent tape, 35 mm (1-3/8 in.) wide x 2 mm (1/16 in.) thick (ref: KERAFIX® FXL 200), on the vertical joints between the glazing panes, one on each pane. Apply neutral cure silicone sealant (ref: Dowsil 791) on vertical joints between the glazing panes.
 10. **FILL, VOID, OR CAVITY MATERIAL:** Fill the void between the framing members and the wall opening with a third-party certified ASTM E814 or UL 1479 firestop system. The system must include mineral fiber insulation and caulk, providing a minimum 1-hour fire-resistance rating. As an example, use ceramic fiber insulation with a minimum density of 8 pcf (128 kg/m³) together with a suitable sealant, or apply a bead of 3M CP25 WB+ at the joint between the frame and the finished wall opening.
 11. **CORNER TRANSITION (Not Shown):** Factory-attached corner transitions consist of nominal 16 GA steel facings filled with insulation. Remove all temporary support straps prior to installation. Secure the inner and outer corner sections to adjacent framing members using #8 x 3/4 in. (19 mm) screws through predrilled holes in the framing.
 12. **END FILLER STRIP (Not Shown):** Nominal 16 GA steel strip with a J-shaped glazing bead, supplied with the steel framing member. After the angled void is filled with insulation, snap the strip into stainless steel clips that are riveted to the framing member.
 13. **METAL SHEET (Not Shown) (Optional):** Where required, 0.032 in. (0.81 mm) thick steel or aluminum sheets may be installed between the gaskets and the fire-resistant glazing panes (single or IGU) on the unexposed, non-fire side. On the fire-exposed side, the sheet may be applied with a suitable adhesive directly to the visible glazing area only.
 14. **METAL PANELS (Not Shown) (Optional):** If specified, assemblies of metal-faced insulated panels may be used. These consist of a minimum 1-3/16 in. (30 mm) thick insulation board with a 1/32-5/64 in. (1-2 mm) steel or aluminum facing sheet, combined with an additional 2-5/16 in. (58 mm) thick mineral wool layer at a minimum density of 3.7 pcf (60 kg/m³). The mineral wool must be secured with a 0.020 in. (0.5 mm) steel sheet welded or screw-fastened to the mullions and transoms at 4 in. (100 mm) on center. Acceptable insulation boards include calcium silicate boards (54 pcf / 870 kg/m³), cement-bonded glass-fiber reinforced boards (50 pcf / 800 kg/m³), or gypsum fiberboards (69 pcf / 1100 kg/m³), such as Promatect-H, Aestuver Firestop, or Knauf GIFAboard. Multiple thinner boards may be combined to achieve the required thickness. The insulation boards must then be faced with 1/32-5/64 in. (1-2 mm) steel, stainless steel, or aluminum sheets, secured using tested adhesives such as hybrid polymer adhesives or with mechanical fasteners.

POLFLAM STL 120
 Spec ID 90002
 Design No. PSZ/FRG 120-04
 (120 minute rating)



Butt-joint Detail



1. **CERTIFIED MANUFACTURER:** Polflam Sp. z o.o.
CERTIFIED PRODUCT: POLFLAM STL 120
 Install POLFLAM STL 120 steel framing members with a nominal depth of 4-5/16 in. (110 mm). Secure the framing members to the steel studs of the supporting construction using No. 10, 4 in. long, self-drilling, self-tapping bugle-head screws, spaced 18 in. (457 mm) on center.
2. **SUPPORTING CONSTRUCTION:** Min. 2-hour fire rated wall assembly.
3. **FIRE RESISTANT GLAZING MATERIAL:** Install one of the following:
 - a. 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 60 Max. area: 4.50 m² (6975 sq. in.)
 - b. Install Listed 2 Hour Fire-Resistant Rated POLFLAM VIEW 120, 50 mm (1 15/16 in.) thick glazing panes in the following max. size:
 POLFLAM VIEW 120 Max. Width: 1500 mm (59 1/16) by Max. Height: 3036 mm (119 1/2 in.),
 POLFLAM VIEW 120 Max. area: 4.55 m² (7053 sq. in.)

NOTE: Double-glass units (DGU) and triple-glass units (TGU) incorporating tempered or laminated glazing are permitted. DGU and TGU configurations shall be installed with the non-fire-resistive glass oriented toward the unexposed side of the assembly only.
4. **GASKET OR TAPE:** Install EPDM glazing gaskets continuously around the glazing panes between the glazing beads on both sides, or apply self-adhering Kerafix 2000 glazing tape, nominal 5/8 in. (15 mm) wide x minimum 1/8 in. (3 mm) thick, between the glazing beads and the glazing material. Apply a continuous bead of 100% silicone sealant between the glazing beads and the glazing material.
5. **SCREWS:** Fasten glazing beads using 5/8 in. (15 mm) long pan-head screws attached to the steel framing members, spaced 12 in. (305 mm) on center.
6. **GLAZING BEADS:** Friction-fit nominal 16 GA steel glazing beads tightly along the perimeter, on the glazing material side, over the screws.
7. **INTUMESCENT TAPE:** Apply self-adhesive intumescent tape in framing pockets with exposed insulation, as well as in the chambers directly exposed to the glass.
8. **SETTING BLOCKS (Not Shown):** Install glazing panes on nominal 5 mm ± 2 mm (3/16 in. ± 3/32 in.) thick x 100 mm (3-15/16 in.) long hardwood or magnesium silicate setting blocks. The width of the setting blocks must be selected to match the glass thickness. Position setting blocks on steel support plates located 4 in. (100 mm) from each corner of the glazing.
9. **BUTT JOINT INTUMESCENT TAPE AND SEALANT (with item 3B):** Apply self-adhesive intumescent tape, 35 mm (1-3/8 in.) wide x 2 mm (1/16 in.) thick (ref: KERAFIX® FXL 200), on the vertical joints between the glazing panes, one on each pane. Apply neutral cure silicone sealant (ref: Dowsil 791) on vertical joints between the glazing panes.
10. **FILL, VOID, OR CAVITY MATERIAL:** Fill the void between the framing members and the wall opening with a third-party certified ASTM E814 or UL 1479 firestop system. The system must include mineral fiber insulation and caulk, providing a minimum 1-hour fire-resistance rating. As an example, use ceramic fiber insulation with a minimum density of 8 pcf (128 kg/m³) together with a suitable sealant, or apply a bead of 3M CP25 WB+ at the joint between the frame and the finished wall opening.
11. **CORNER TRANSITION (Not Shown):** Factory-attached corner transitions consist of nominal 16 GA steel facings filled with insulation. Remove all temporary support straps prior to installation. Secure the inner and outer corner sections to adjacent framing members using #8 x 3/4 in. (19 mm) screws through predrilled holes in the framing.
12. **END FILLER STRIP (Not Shown):** Nominal 16 GA steel strip with a J-shaped glazing bead, supplied with the steel framing member. After the angled void is filled with insulation, snap the strip into stainless steel clips that are riveted to the framing member.
13. **METAL SHEET (Not Shown) (Optional):** Where required, 0.032 in. (0.81 mm) thick steel or aluminum sheets may be installed between the gaskets and the fire-resistant glazing panes (single or IGU) on the unexposed, non-fire side. On the fire-exposed side, the sheet may be applied with a suitable adhesive directly to the visible glazing area only.
14. **METAL PANELS (Not Shown) (Optional):** If specified, assemblies of metal-faced insulated panels may be used. These consist of a minimum 1-15/16 in. (50 mm) thick insulation board with a 1/32-5/64 in. (1-2 mm) steel or aluminum facing sheet, combined with an additional 2-5/16 in. (58 mm) thick mineral wool layer at a minimum density of 3.7 pcf (60 kg/m³). The mineral wool must be secured with a 0.020 in. (0.5 mm) steel sheet welded or screw-fastened to the mullions and transoms at 4 in. (100 mm) on center. Acceptable insulation boards include calcium silicate boards (54 pcf / 870 kg/m³), cement-bonded glass-fiber reinforced boards (50 pcf / 800 kg/m³), or gypsum fiberboards (69 pcf / 1100 kg/m³), such as Promatect-H, Aestuver Firestop, or Knauf GIFAboard. Multiple thinner boards may be combined to achieve the required thickness. The insulation boards must then be faced with 1/32-5/64 in. (1-2 mm) steel, stainless steel, or aluminum sheets, secured using tested adhesives such as hybrid polymer adhesives or with mechanical fasteners.

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