POLFLAM CLASSIC System

60 & 120 MINUTE FIRE-RESISTIVE GLAZING WALL

The POLFLAM CLASSIC 60 & 120 fire-rated systems brings together robust steel framing with the trusted performance of POLFLAM fire-resistive glass and POLFLAM VIEW butt-joint glass. Designed for 60- or 120-minute interior fire protection, POLFLAM CLASSIC delivers safety, and transparency with a refined architectural look. With single, double (DGU), and triple (TGU) glazing options, POLFLAM CLASSIC enhances acoustic performance while meeting the highest fire-safety standards. Every POLFLAM pane is permanently laser-marked for compliance and traceability, giving architects and builders complete confidence from specification to installation.

KEY FEATURES

- **Fire Protection – 60 or 120 minutes, fully certified**
- **Classic Steel Profiles – Strong, timeless framing**
- **Glazing Options – Single, DGU, or TGU for better STC ratings**
- **Bright Interiors – Large panes maximize natural light**
- **Acoustic Comfort – Enhanced sound control choices**
- **Versatile Use – Perfect for interior walls and partitions**
- **Refined Aesthetics – Clean lines to fit any design**
- **Tested & Trusted – Meets leading fire-safety standards**

Maximum Framing / Glass Sizes:

Fire Rating	Max. Width Framing	Max. Height Framing	GlassType	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.

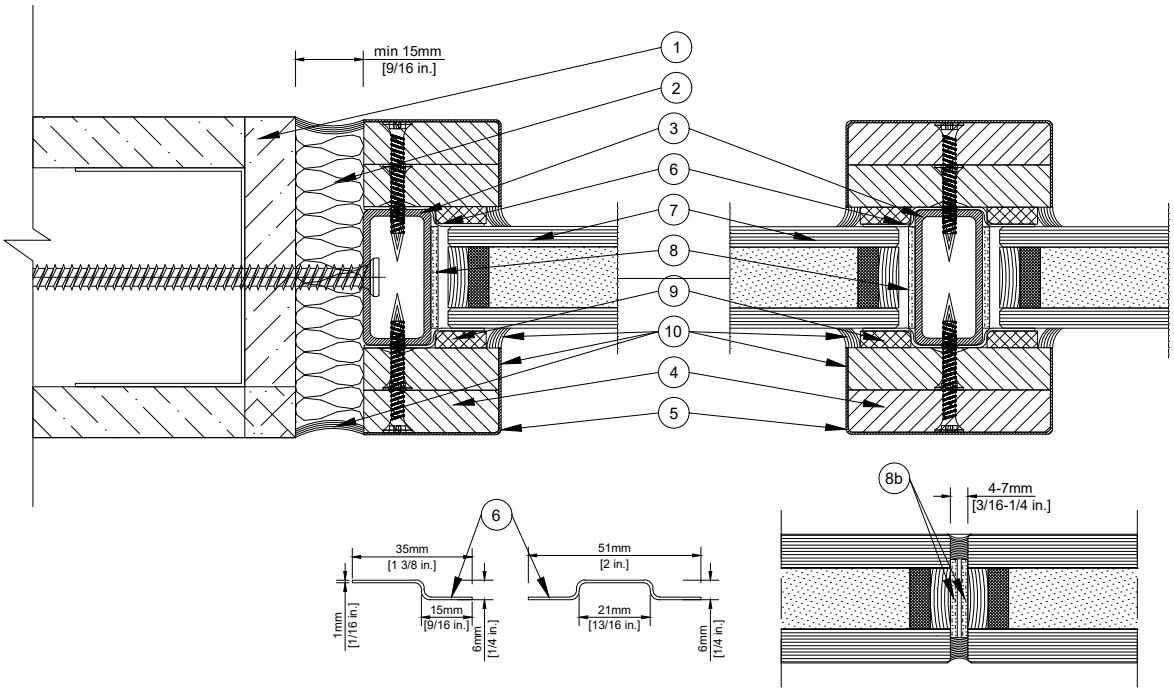
POLFLAM and POLFLAM VIEW fire-resistive glass is permanently laser-marked for full traceability and compliance.

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 89995 - Design No. PSZ/FGP 60-07 (60 minute rating)
Spec ID 89995 - Design No. PSZ/FGP 120-07 (120 minute rating)
Tests performed in accordance with UL 263 / ASTM E119 / CAN/ULC S101

POLFLAM Classic 60
Spec ID 89995
Design No. PSZ/FGP 60-07
(60 minute rating)



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. **STEEL PROFILE STRUCTURE:** Install steel tube profiles with a minimum depth of 40 mm (1-9/16 in.), width of 20 mm (13/16 in.), and thickness of 2 mm (3/32 in.). The tube profiles shall be continuously welded to form the structure. The assembly shall be secured to the supporting wall using 7.5 mm × 80 mm (5/16 in. × 3-1/4 in.) flat or countersunk head screws, located 100 mm (3-15/16 in.) from each end and spaced approximately 360 mm (14-3/16 in.) on center. Alternative materials such as stainless steel, mild steel, aluminum, or other non-combustible metals meeting ASTM E136 may be used. Finishes such as enamel paint, powder coating, or anodizing are permitted.
4. **GYPSUM BOARD:** Install two layers of fire-resistant gypsum plasterboard on each side of steel profiles (Item 3). Mullions: 60 mm (2-3/8 in.) wide × 12.5 mm (1/2 in.) thick, Perimeter frame: 40 mm (1-9/16 in.) wide × 12.5 mm (1/2 in.) thick. Boards shall be Type X gypsum board, ASTM C1396/C1396M compliant (e.g., RIGIPS® PRO FIRE or equivalent). Fastening: inner layer: #6 × 1 in. (Ø3.5 mm × 25 mm) drywall screws, max. 500 mm (19-11/16 in.) oc, outer layer: #6 × 1-1/2 in. (Ø3.5 mm × 35 mm) drywall screws, max. 300 mm (11-13/16 in.) oc.
5. **COVEL PROFILE:** Install 25 mm (1 in.) deep × 60 mm (2 3/8 in.) wide C-shaped steel cover profile over the outermost layer of gypsum board (ASTM C1396, Type X) at mullions. Install 25 mm (1 in.) deep × 40 mm (1 9/16 in.) wide L-shaped steel cover profile over the outermost layer of gypsum board (ASTM C1396, Type X) at perimeter, including sill, jamb, and head members. Cover profiles shall be secured to the outer layer of gypsum board using neutral cure silicone sealant (ITEM 10).
6. **GLASS CLAMP:** Install Z-shaped stainless steel glass clamps, 35 mm × 6 mm × 1 mm (1 3/8 in. × 1/4 in. × 0.0394 in.), at sill, jambs, and head members.

   Secure each clamp using one #8 × 1/2 in. Pan Head Phillips self-tapping screw (Ø4.2 mm × 13 mm).

   Fasten clamps 100 mm (3 15/16 in.) from corners, with a maximum spacing of 338 mm (13 5/16 in.) oc horizontally and 378 mm (14 7/8 in.) oc vertically.

   Install Omega-shaped stainless steel glass clamps, 51 mm × 6 mm × 1 mm (2 in. × 1/4 in. × 0.0394 in.), on horizontal and vertical mullions (field). Secure each clamp using #8 × 1/2 in. Pan Head Phillips self-tapping screws (Ø4.2 mm × 13 mm).Fasten clamps 100 mm (3 15/16 in.) from corners, with a maximum spacing of 278 mm (10 15/16 in.) on center horizontally and 358 mm (14 1/8 in.) on center vertically.
7. **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.)

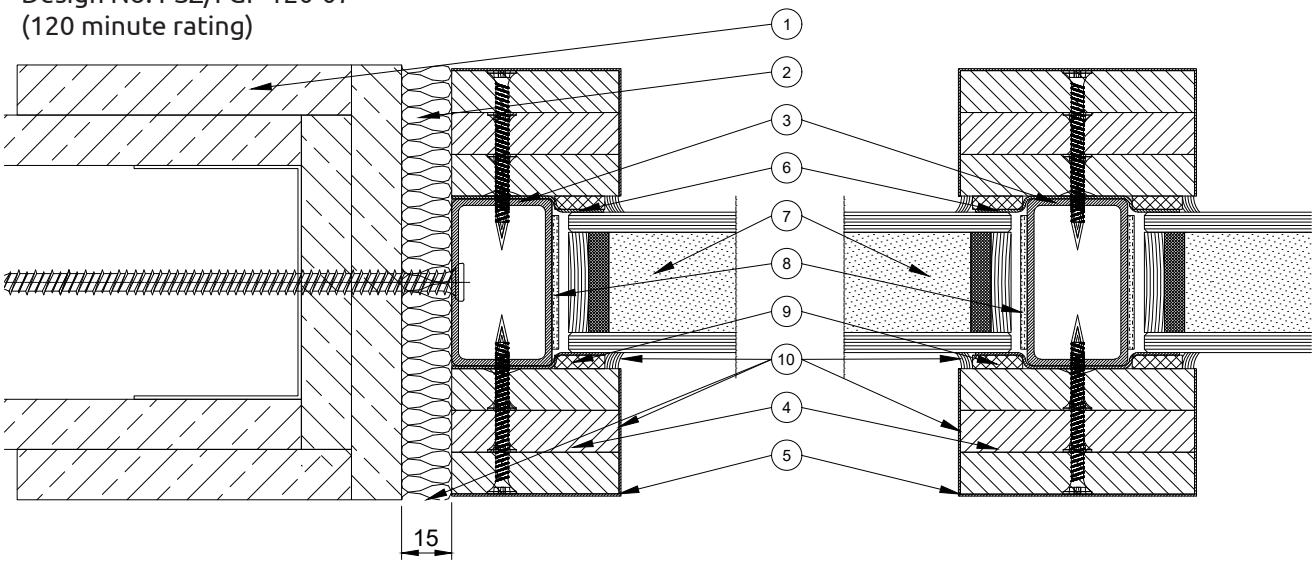
      SHAPED GLASS:

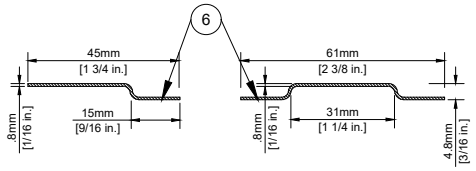
      Shaped glass is permitted under the following conditions: The entire glass shape must fit within the maximum allowable dimensions of the tested assembly. No external forces or tension shall be applied to the edges of the glass. The bottom edge of the glass must remain horizontal.

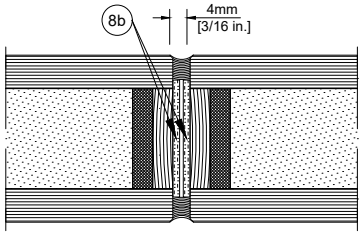
      Glazing panes shall be installed on nominal 5 mm ± 2 mm (3/16 ± 3/32 in.) thick magnesium silicate glass setting blocks, 100 mm × 30 mm (3 15/16 in. × 1 3/16 in.), placed 100 mm (3 15/16 in.) from the bottom corners of each glazing pane.

      Note: Double-glazed (DGU) and triple-glazed (TGU) insulating glass units (IGUs) are permitted. When using DGU or TGU IGUs, the non-fire-rated glass must be positioned toward the unexposed side of the assembly.
8. **INTUMESCENT TAPE:**
   a. Install 30 mm × 2 mm (1 3/16 in. × 3/32 in.) intumescent tape (reference: PROMASEAL® LW) continuously all around the edge of the glass pane, between the glass and the steel tubes (ITEM 3).
   b. **BUTT JOINT INTUMESCENT TAPE AND SEALANT** (Optional): Apply self-adhesive intumescent tape, 25 mm (1 in.) wide x 2 mm (1/16 in.) thick (ref: KERAFIX® FXL 200), on the vertical joints between the glazing panes, one one each pane. Apply neutral cure silicone sealant (ref: Dowsil 791) on vertical joints between the glazing panes.
9. **GLAZING TAPE:** Install 15 mm wide with a thickness of 2 mm to 5 mm (9/16 in. × 1/16 in. to 3/16 in.) ceramic tape (reference: KERAFIX® 2000) between the perimeter gypsum board and the glazing panes, positioned over the glass clamps. The ceramic tape shall be installed continuously along the perimeter.
10. **SEALANT:** Install neutral-cure silicone sealant (Ref: DOWSIL® 791 or equivalent) continuously at the following locations: Between the cover profiles and the supporting structure, between the cover profiles and the glazing panes, between the cover profiles and the gypsum board layers.

POLFLAM Classic 120
Spec ID 89995
Design No. PSZ/FGP 120-07
(120 minute rating)







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. **STEEL PROFILE STRUCTURE:** Install steel tube profiles with a minimum depth of 50 mm (1-15/16 in.), width of 30 mm (1-3/16 in.), and thickness of 2 mm (3/32 in.). The tube profiles shall be continuously welded to form the structure. The assembly shall be secured to the supporting wall using 7.5 mm × 152 mm (5/16 in. × 6 in.) flat or countersunk head screws, located 100 mm (3-15/16 in.) from each end and spaced approximately 360 mm (14-3/16 in.) on center. Alternative materials such as stainless steel, mild steel, aluminum, or other non-combustible metals meeting ASTM E136 may be used. Finishes such as enamel paint, powder coating, or anodizing are permitted.
4. **GYPSUM BOARD:** Install thee layers of fire-resistant gypsum board on each side of steel profiles (Item 3). Mullions: 70 mm (2-3/4 in.) wide × 12.5 mm (1/2 in.) thick, Perimeter frame: 50 mm (1-15/16 in.) wide × 12.5 mm (1/2 in.) thick. Boards shall be Type X gypsum board, ASTM C1396/C1396M compliant (e.g., RIGIPS® PRO FIRE or equivalent). Fastening: inner layer: #6 × 1 in. (Ø3.5 mm × 25 mm) drywall screws, max. 500 mm (19-11/16 in.) oc, middle layer: #6 × 1-1/2 in. (Ø3.5 mm × 35 mm) drywall screws, max. 500 mm (19-11/16 in.) oc and outer layer: #6 × 2 in. (Ø3.5 mm × 50 mm) drywall screws, max. 300 mm (11-13/16 in.) oc.
5. **COVEL PROFILE:** Install 37.5 mm (1-1/2 in.) deep × 70 mm (2-3/4 in.) wide C-shaped steel cover profile over the outermost layer of gypsum board (ASTM C1396, Type X) at mullions. Install 37.5 mm (1-1/2 in.) deep × 50 mm (1-15/16 in.) wide L-shaped steel cover profile over the outermost layer of gypsum board (ASTM C1396, Type X) at perimeter, including sill, jamb, and head members. Cover profiles shall be secured to the outer layer of gypsum board using neutral cure silicone sealant (ITEM 10).
6. **GLASS CLAMP:** Install Z-shaped stainless steel glass clamps, 45 mm × 4.8 mm × 0.8 mm (1-3/4 in. × 3/16 in. × 0.0315 in.), at sill, jambs, and head members. Secure each clamp using one #8 × 1/2 in. (Ø4.2 mm × 13 mm) Pan Head Phillips self-tapping screw. Fasten clamps 100 mm (3 15/16 in.) from corners, with a maximum spacing of 339 mm (13 3/8 in.) oc horizontally and 371 mm (14 5/8 in.) oc vertically.

   Install Omega-shaped stainless steel glass clamps, 61 mm × 4.8 mm × 10.8 mm (2-3/8 in. × 3/16 in. × 0.0315 in.), on horizontal and vertical mullions (field).Secure each clamp using #8 × 1/2 in. (Ø4.2 mm × 13 mm) Pan Head Phillips self-tapping screws. Fasten clamps 100 mm (3-15/16 in.) from corners, with a maximum spacing of 279 mm (11 in.) on center horizontally and 348 mm (13-11/16 in.) on center vertically.
7. **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.)

      SHAPED GLASS:

      Shaped glass is permitted under the following conditions: The entire glass shape must fit within the maximum allowable dimensions of the tested assembly. No external forces or tension shall be applied to the edges of the glass. The bottom edge of the glass must remain horizontal.

      Glazing panes shall be installed on nominal 3 mm to 6 mm (18 in. to 1/4 in.) thick magnesium silicate glass setting blocks, 100 mm × 42 mm (3 15/16 in. × 1 5/8 in.), placed 100 mm (3 15/16 in.) from the bottom corners of each glazing pane.

      NOTE: Double-glazed (DGU) and triple-glazed (TGU) insulating glass units (IGUs) are permitted. When using DGU or TGU, the non-fire-rated glass must be positioned toward the unexposed side of the assembly.
8. **INTUMESCENT TAPE:**
   a. Install 40 mm × 2 mm (1-9/16 in. × 3/32 in.) intumescent tape (reference: PROMASEAL® LW) continuously all around the edge of the glass pane, between the glass and the steel tubes (ITEM 3).
   b. BUTT JOINT INTUMESCENT TAPE AND SEALANT: (Optional): 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.
9. **GLAZING TAPE:** Install 15 mm wide with a thickness of 2 mm to 5 mm (9/16 in. × 1/16 in. to 3/16 in.) ceramic tape (reference: KERAFIX® 2000) between the perimeter gypsum board and the glazing panes, positioned over the glass clamps. The ceramic tape shall be installed continuously along the perimeter.
10. **SEALANT:** Apply a neutral cure silicone sealant (reference: DOWSIL 791) continuously at the following locations: Between the cover profiles and the supporting structure, between the cover profiles and the glazing panes, between the cover profiles and the gypsum board layers.

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