



Pyran® Platinum F (Filmed) Fire-Rated Glass

Product Description

Pyran® Platinum products are fire-rated glass-ceramics that prevent the spread of fire, hot gases and smoke. Pyran Platinum F has a surface applied safety film and is intended for use in safety-rated locations such as door lites, transoms or sidelites, and windows with fire-rating requirements up to 90 minutes and up to 180 minutes in doors. It is the world's first and only floated glass ceramic developed specifically for architectural applications.

Features & Benefits

- Largest sheet size in the industry 51" x 99"
- Surface applied safety film meets CPSC 16 CFR 1201 safety glazing requirements
- Fire-rated for up to 90 minutes with required hose-stream test
- Fire-rated for up to 180 minutes in doors with required hose-stream test
- Withstands thermal shock
- Passes positive pressure test standard UL
- Clear and colorless without the distracting amber tint
- Transparent and wireless
- Can be used monolithically, or as part of an insulated glass unit
- Environmentally friendly
- Available through GGI's distributor network
- Approved for use with any standard fireprotective frame with the same rating

Resources

CSI 3-Part Specifications available on GGI website, BSD SpecLink, and ARCAT.com. Contact sales representative to discuss custom fabrication capabilities.



Product Stocked:

- Thickness: 3/16" (5 mm)
- Weight: 2.6 lbs/ft
- Surface finish: Float glass quality
- Impact Safety-Rated: Yes
- Hose-Stream Test: Pass
- Max Sheet Size: 51" x 99"
- STC Rating: 31 STC

Fire-Endurance Test



The Fire Endurance test subjects a full-size window or door assembly to a controlled time-temperature profile in a furnace. The test duration is 20 minutes up to three hours, depending on the desired rating, with temperatures reaching nearly 2000 °F in three hours. The window assembly including frame, glazing and components must not allow flames on the non-fire side, and the glazing must survive the test without breaking or cracking.

Hose-Stream Test



Immediately following the Fire Endurance test, the fire-exposed side of the test assembly is subject to impact from water blast in a prescribed pattern for duration appropriate to the specimen size. The glazing must remain intact in the frame.

Impact Test



In installations where accidental human impact could occur, fire-rated glazing must also withstand impact tests. The impact test uses a 100-lb weight swung from a pendulum at 48-inch drop height. The glazing must remain intact with no significant openings.

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Product Information

Maintenance & Care

A soft, clean, non-abrasive cloth and a mild soap, detergent, or non-abrasive window cleaning solution is suitable for cleaning. After cleaning, rinse immediately with clean water and remove any excess water from the panel surface. Also, do not allow any metal or hard parts of the cleaning equipment to come in contact with the panel surface.

Labeling

After cutting, each lite of PYRAN Platinum fire-rated glass-ceramic shall be permanently labeled according to local building code requirements with product and manufacturers name, UL certification mark, fire-rating, etc.

Storage & Handling

PYRAN Platinum fire-rated glass-ceramic should be handled with care during transportation, storage, inspection, and installation. It should be stored in dry conditions and needs to be stacked upright. In addition, the panels must be separated by an appropriate material, such as acid-free tissue paper and the bottom edge must be supported along its entire length.

Technical Specifications

| Rating (Minutes) | Application | Max. exposed area of glazing | Max. width of exposed glazing | Max. height of exposed glazing | Min. depth of grove | Groove width | Building code marking |
|------------------|-----------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------|--------------|------------------------------|
| Up to 90 | Doors Non-Temp Rise | 3708" (2.39 m ²) | 37 3/4" (959 mm) | 98 1/4" (2495 mm) | 5/8" (16 mm) | 7/16" 3/8" | D-H-90, D-H-60 |
| Up to 180 | Doors Temp Rise and Non-Temp Rise | 99" (2520 mm) | 12" (305 mm) | 33" (838 mm) | 1/2" (12.7 mm) | 7/16" 3/8" | D-H-180 |
| Up to 90 | Other than doors | 4933" (3.194 m ²) | 98 1/4" (2495 mm) | 98 1/4" (2495 mm) | 5/8" (16 mm) | 7/16" 3/8" | D-H-90, OH-90, D-H-60, OH-60 |



Installation

PYRAN Platinum should be installed into fire-rated frame and window assemblies carrying the same rating. All glazing components and the stop height must be chosen according to the PYRAN Platinum UL classification. The panel must be placed on calcium silicate or hardwood setting blocks and glazed using PYRAN Platinum classified glazing tape, such as closed cell PVC, Fiberfrax tape or Pemko FG3000S90. The installation of the framed unit must comply with the frame supplier's instructions.

Each PYRAN Platinum panel should be inspected carefully before installation and any pieces with visible edge or surface damage should be sorted out. PYRAN® Platinum is a specially developed glass-ceramic that fulfills the fire-protection-rating requirements. The production process may create certain optical imperfections, such as bubbles or knots. Since these do not generally impair the transparency or the technical performance of the glass-ceramic, they do not represent cause for rejection or replacement.



Classified and labeled by Underwriters Laboratories, Inc.* and Underwriters Laboratories of Canada. Test report number for labeled fire-rated assemblies is UL File No. R22036. All above tests performed in accordance with UL 9, UL 10B, UL 10C, UBC 7-2 (1997), UBC 7-4 (1997), NFPA 252, NFPA 257, NFPA 80, ASTM E2010-01, ASTM E2074-00, ULCCAN4 S-104 and ULCCAN4 S-106. This product is not considered a barrier to radiant heat and has not met the ASTM E-119 or UL 263 test standards. All listing information is subject to change. The current listing can be accessed in the UL directory under File #R22036 or upon request from SCHOTT.

Contact us to learn more.

800-431-2042 | sales@generalglass.com | www.generalglass.com

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