



# Pyran® Platinum Fire-Rated Glass

## Product Description

Pyran® Platinum products are fire-rated glass-ceramics that prevent the spread of fire, hot gases and smoke. Even under high thermal loads, the glazing stays transparent, ensuring that the burning building can be safely evacuated. Pyran Platinum is intended for use in non-impact, non-safety rated locations such as transoms and windows with fire-rated requirements up to 90 minutes. It is the world's first and only floated glass ceramic developed specifically for architectural applications. Pyran Platinum is available with surface-applied film or laminated to meet the safety impact code requirements.

## Features & Benefits

- Largest sheet size in the industry 51" x 99"
- Fire-rated for up to 90 minutes with required hose-stream test
- Passes positive pressure test standard UL 10C
- Withstands thermal shock
- Clear and colorless without the distracting amber tint
- Microfloat process allows for smooth surface and distortion-free mirror finish
- 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 fire-protective 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: No
- 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.

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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 only and needs to be stacked upright or at a slight angle. In addition, the panels must be separated by an appropriate material, such as soft pads made of cork, 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 groove | Groove width  | Building code marking                 |
|------------------|--|-----------------------------------|-------------------------------|--------------------------------|----------------------|---------------|---------------------------------------|
| Up to 90         | Transom lites<br>sidelites,<br>windows | 4933"<br>(3.194 m <sup>2</sup> )  | 98 1/4"<br>(2495 mm)          | 98 1/4"<br>(2495 mm)           | 5/8"<br>(16 mm)      | 7/16"<br>3/8" | D-H-90,<br>OH-90,<br>D-H-60,<br>OH-60 |
| Up to 90         | Doors Non-Temp Rise                    | 3708"<br>(2.39 mm <sup>2</sup> )  | 37 3/4"<br>(959 mm)           | 98 1/4"<br>(2495 mm)           | 5/8"<br>(16 mm)      | 5/8"          | D-H-90,<br>D-H-60                     |
| Up to 180        | Doors Temp-Rise & Non-Temp Rise        | 100"<br>(0.0645 mm <sup>2</sup> ) | 12"<br>(305 mm)               | 33"<br>(838 mm)                | 1/2"<br>(12.7 mm)    | 5/8"<br>1/2"  | D-H-180                               |



## Installation

PYRAN Platinum shall only be installed into fire-rated frame and window assemblies carrying the same rating. Each PYRAN Platinum panel should be inspected carefully before installation, and any pieces with visible edge or surface damage should be sorted out. 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. Based on location of project, always consult with local jurisdiction to ensure compliance with IBC code recognized as these codes are periodically updated.

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.

## Contact us to learn more.

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