SCHOTT PYRAN® Platinum F (filmed)

Product Information

Fire-rated

Hose-Stream tested

Impact-safety-rated

Description

PYRAN® Platinum F is a fire-protection-rated and impact-safety-rated glazing material made from a transparent glass-ceramic with thickness of 3/16" (5 mm). It 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.

Innovation

- World's first and only floated glass-ceramic developed specifically for architectural applications
- Largest sheet size available in the industry at 51" x 99"

Safety

- Surface-applied safety film
- 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 10C

Appearance

- Clear and colorless without the distracting amber tint associated with competitive glass-ceramics
- Microfloat process allows for smooth surface and distortion-free mirror finish
- Transparent and wireless

Environmental Friendly

- Produced without hazardous heavy metals antimony and arsenic

Design

- Can be used to construct insulated glazing units
- Can be lightly sandblasted or delivered with surface-applied opacity film, without affecting fire-rating
- Approved for use with any standard fire-rated frame with same rating

Product overview

Thickness	Weight	Appearance	Max. Sheet Size	Surface	Impact Safety-rated*	Hose-Stream Test
3/16" (5 mm)	2.6 lbs/ft²	Clear, no amber tint	51" x 99"	Float Glass Quality	Yes	Pass

*According to ANSI Z97.1 and CPSC 16 CFR 1 201 (Cat. I and II).

Technical Specifications

Ratings	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 min.	Doors Non-Temp Rise	3708" (2.39 m²)	37 3/4" (958 mm)	98 1/4" (2495.6 mm)	5/8" (16 mm)	7/16" 3/8"	D-H-NT-90
Up to 180 min.	Doors Temp-Rise and Non-Temp Rise	100" (0.0645 m²)	12" (305 mm)	33" (838 mm)	1/2" (12.7 mm)	7/16" 3/8"	D-H-NT-180
Up to 90 min.	other than doors	4933" (3.194 m²)	98 1/4" (2495 mm)	98 1/4" (2495 mm)	5/8" (16 mm)	7/16" 3/8"	OH-90

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Fire-rated glass plays an important role in saving lives and minimizing property damage by providing safe egress and compartmentalizing smoke and flames. Knowing the standards, testing and code requirements are important in order to properly specify the correct and code-approved product for the application.

Fire-Endurace 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.

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 manufacturer's name, UL certification mark, fire rating, etc.

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.

Storage and 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.

Maintenance and Care

To maintain the appearance, it is important to keep the panel clean. 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.

Note: Failure to comply with any of the Labeling, Storage & Handling, Installation, and/or Maintenance & Care guidelines may result in a loss of warranty.
A complete three-part CSI format specification list and product warranty information are both available at www.us.schott.com/pyran or by calling +1 (502) 657- 4439.

LISTED

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 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.

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SCHOTT PYRAN® Platinum L (laminated)

Product Information

Fire-rated

Hose-Stream tested

Impact-safety-rated

Description

PYRAN® Platinum L is a fire-protection-rated and impact-safety-rated glazing material with a thickness of approximately 3/8“ (9 mm), made from a laminated glass-ceramic with a transparent appearance. It is intended for use in safetyrated locations such as door lites, transoms or sidelites, and windows with fire-rating requirements up to 90 minutes and up to 3 hours in doors.

Innovation

- World’s first and only floated glass-ceramic developed specifically for architectural applications
- Largest sheet size available in the industry at 51“ x 99“

Safety

- Laminated floated glass-ceramic
- 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 10C

Appearance

- Clear and colorless without the distracting amber tint associated with competitive glass-ceramics
- Microfloat process allows for smooth surface and distortion-free mirror finish
- Transparent and wireless

Environmental Friendly

- Produced without hazardous heavy metals antimony and arsenic

Design

- Can be used to construct insulated glazing units
- Can be lightly sandblasted or delivered with surface-applied opacity film, without affecting fire-rating
- Approved for use with any fire-rated frame

Product overview

Thickness	Weight	Appearance	Max. Sheet Size	Surface	Impact Safety-rated*	Sound Transmission Class (STC)	Hose-Stream Test
3/8“ (9 mm)	4.3 lbs/ft²	Clear, no amber tint	51“ x 99“	Float Glass Quality	Yes	36	Pass

*According to ANSI Z97.1 and CPSC 16 CFR 1201 (Cat. I and II).

Technical Specifications

Ratings	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 min.	Doors Non-Temp Rise	2736“ (1.765 m²)	37 3/4“ (958 mm)	98 1/4“ (2495 mm)	5/8“ (16 mm)	5/8“	D-H-NT-90
Up to 180 min.	Doors Temp-Rise and Non-Temp Rise	100“ (0.0645 m²)	12“ (305 mm)	33“ (838 mm)	1/2“ (12.7 mm)	5/8“ 1/2“	D-H-NT-180
Up to 90 min.	Transom lites, sidelites, windows	3143“ (2.027 m²)	98 1/4“ (2495 mm)	98 1/4“ (2495 mm)	5/8“ (16 mm)	5/8“	OH-90

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Fire-Endurace 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.

Sound Transmission

The acoustical performance of glazing is described by the Sound Transmission Class (STC) measured by ASTM E90.

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 manufacturer's name, UL certification mark, fire rating, etc.

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.

Storage and 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.

Maintenance and Care

To maintain the appearance, it is important to keep the panel clean. 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.

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