

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" (5mm)
- Weight: 2.6 lbs/ft²
- Surface finish: Float glass quality
- Hose-Stream Test: Pass
- Impact Rated: No
- 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.



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	Other than doors	4933" (3.183 m ²)	98 1/4" (2495 mm)	98 1/4" (2495 mm)	5/8" (16 mm)	7/16" 3/8"	OH-90



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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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.

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 groove	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	100" (0.0645 m ²)	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.

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Pyran® Platinum L (Laminated) 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 L is laminated to meet the safety impact code requirements for glazing in doors, windows and other hazardous locations. PYRAN Platinum L not only remains intact after heavy impact, but features the same high resistance to heat and thermal shock as PYRAN Platinum. 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"
- Laminated floated glass-ceramic 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 10C
- 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: 3/8" (9 mm)
- Weight: 4.3 lbs/ft²
- Surface finish: Float glass quality
- Impact Safety-Rated: Yes
- Hose-Stream Test: Pass
- Max Sheet Size: 51" x 99"
- STC Rating: 36 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.

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

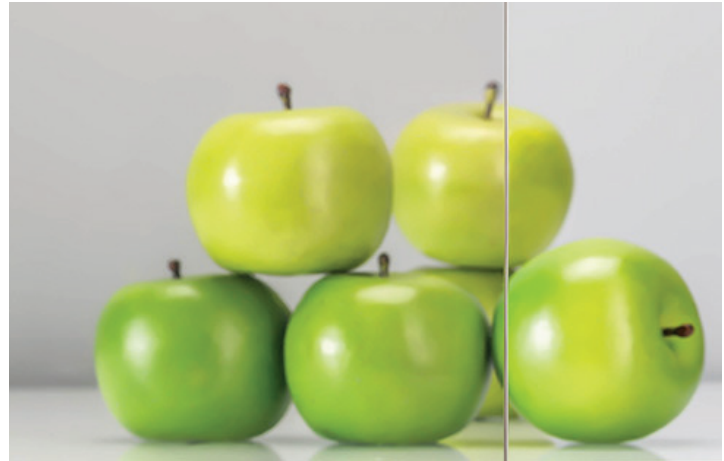
After cutting, each lite of PYRAN Platinum fire-rated glass-ceramic shall be permanently labeled according to local building code requirements with product and manufacturers name, UL certification mark, fire-rating, etc.

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	3564" (2.392 m ²)	37 3/4" (959 mm)	99" (2520 mm)	5/8" (16 mm)	5/8"	D-H-60, D-H-90
Up to 180	Doors Temp Rise and Non-Temp Rise	100" (0.0645 m ²)	12" (305 mm)	33" (838 mm)	1/2" (12.7 mm)	5/8", 1/2"	D-H-180
Up to 90	Transom lites, sidelites, windows	5065" (3.27 m ²)	99" (2520 mm)	99" (2520 mm)	5/8" (16 mm)	5/8"	D-H-60, OH-60, D-H-90, OH-90



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.

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