



McGRORY GLASS

PYRAN® PLATINUM L-M LAMINATED FIRE PROTECTIVE SAFETY GLASS

SCHOTT
glass made of ideas



Fire-rated



Hose-Stream tested



Impact-safety-rated



Sound Transmission

DESCRIPTON

PYRAN® Platinum Laminated by McGrory is a fire-protection-rated and impact-safety-rated glazing material with a thickness of 5/16" (8 mm), made from a laminated glass-ceramic with a transparent appearance. It 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.

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 90 minutes in doors with required hose-stream test
- Withstands thermal shock
- Passes positive pressure test standard UL 10C

APPEARANCE

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

ENVIRONMENTAL FRIENDLY

- Produced without hazardous heavy metals

DESIGN

- Can be lightly sandblasted or modified with surface-applied decorative or opacity films without affecting the fire rating or UL listing

PRODUCT OVERVIEW

THICKNESS	WEIGHT	APPEARANCE	MAX SHEET SIZE	SURFACE	IMPACT SAFETY-RATED*	SOUND TRANSMISSION CLASS (STC)	HOSE-STREAM TEST
5/16"	4.3 lbs/ft ²	Clear, neutral gray 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	2745" (1.771 m ²)	36" (914 mm)	76-1/4" (1938 mm)	5/8" (16 mm)	5/8"	D-H-NT-90
up to 90 min.	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-NT-90
up to 90 min.	Transom lites, sidelites, windows	2745" (1.771 m ²)	36" (914 mm)	76-1/4" (1938 mm)	5/8" (16 mm)	5/8"	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-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 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.

Note: Failure to comply with any of the Labeling, Storage & Handling, Installation, and/or Maintenance & Care guidelines may result in a loss of warranty.

Contact McGrory for a complete three-part CSI format specification list and product warranty information.

Schott PYRAN® Platinum ML is fire-protective glazing and **not considered a barrier to radiant heat**. It does not meet ASTM E-119 or UL 263 test standards. Contact McGrory for fire-resistive products that comply with temperature rise barrier to heat performance criteria.



Classified and labeled by Underwriters Laboratories, Inc.* and Underwriters Laboratories of Canada. Test report number for labeled fire-rated assemblies is UL File No. R21674. 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. All listing information is subject to change. The current listing can be accessed in the UL directory under File #R21674 or upon request from McGrory Glass.



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THE MCGRORY GLASS DIFFERENCE

Fast, Accurate, Options

- An established national manufacturer and direct distributor, McGrory stocks most fire-rated glass for immediate shipment. All glass is cut to order and shipped directly from our warehouse, allowing for quick turnaround and custom sizing at competitive prices. Next day delivery services are available.

Customer Service

- Are you working with intricate architectural designs that require custom facilitation? Renovating or retrofitting educational and healthcare facilities? Does the current glazing fail to satisfy code requirements or has the surface-laminated film deteriorated? McGrory can help.
- We know the products, and we know the codes. When you partner with McGrory, we make sure the right glazing is used in the proper application.
- Our dedicated team of fire-rated specialists have decades of experience in fire-rated glass and framing systems. We are ready to help you navigate the complicated world of life-safety glazing options.

Single Source Solution

- Don't sacrifice aesthetics for functionality: our range of interlayers and insulation combine decorative qualities with structural and acoustic benefits.
- Execute unforgettable design and meet code requirements with our in-house print division.
- McGrory offers comprehensive safety solutions, including security glass and Corning® Med-X® X-Ray Shielding Glass.

GET IN TOUCH

Code confusion? Protective vs. resistive? Fire vs. smoke? We'll help you get the right fire-rated glass product to meet the required performance.

Call: 800-220-3749 | Email: fire@mcgrory.com | Visit: mcgrory.com