

PYRAN® Crystal

Features & Benefits

- Fire rated for 20 to 90 minutes with hose stream
- Clear glass-ceramic
- Transparent and wireless
- Withstands thermal shock
- Applicable for use in fire rated frames with the same fire rating
- Tested to latest positive pressure standards as mandated by IBC, BOCA, UBC and NFPA 5000
- Approximate visible light transmission: 87%
- Maximum sheet sizes: approximately 43" X 77"
- Multiple U.S. fabrication locations for fast delivery

Additional Features of PYRAN Crystal-F

- Safety rated for all hazardous areas—tested to ANSI Z97.1 and CPSC 16CFR 1201 (Cat. I and II 400 ft. lb. impact)
- Approximate visible light transmission: 85%

Please note: This product is not a barrier to radiant heat. This product does not meet test standards ASTM E-119, NFPA 251 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact AGC InterEdge Technologies regarding the Pyrobel® line of fire rated glazings.

Maximum Glazing Sizes (clear view)

	Width	Height	Max. Sq. In.	Stop Height
Temp. Rise Doors	12"	33"	100"	5/8"
Non-Temp. Rise Doors	36"	76"	2736"	5/8"
Sidelites, Windows and Transoms	76"	76"	3202"	5/8"

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PYRAN® Crystal fire rated glazing material is a transparent glass-ceramic that is virtually tint free as compared to other ceramic glazings. However, due to the nature of manufacturing glass-ceramics, visual distortion will be apparent and the optical quality should not be compared to that of ordinary float glass. Pyran® Crystal is 3/16" thick and is listed for use in non-impact safety rated locations such as transoms and borrowed lites with fire rating requirements up to 90 minutes.

PYRAN® Crystal-F fire rated glazing material is a transparent glass-ceramic that is virtually tint free as compared to other ceramic glazings. However, due to the nature of manufacturing glass-ceramics, visual distortion will be apparent and the optical quality should not be compared to that of ordinary float glass. Pyran® Crystal-F is 3/16" (5mm) thick with a surface-applied 3M Scotchshield Ultra Film. It is listed for use in doors, sidelites, transoms and borrowed lites with fire rating requirements up to 90 minutes.



General Characteristics

	PYRAN® Star-L	PYRAN® Star PYRAN® Crystal	PYRAN® Star-F PYRAN® Crystal-F
Thickness	5/16" (8mm)	3/16" (5mm)	3/16" (5mm)
Weight/sq.ft.	4.0 lbs./sq.ft.	2.5 lbs./sq.ft.	2.5 lbs./sq.ft.
Approx. Visible Light transmission	80%	87%	85%
Safety rating	ANSI Z97.1 and CPSC 16 CFR 1201 (Cat. II)	None	ANSI Z97.1 and CPSC 16 CFR 1201 (Cat. II)
Fire rating	20 minutes to 90 minutes		
Surface Finish	Unpolished		

LISTINGS

Listed and labeled by Underwriters Laboratories, Inc. for the United States and Canada with File No. R22036 (SCHOTT) and R19261 (InterEdge). All fire tests performed in accordance with UL-9, UL-10B, UL-10C, ASTM E-2010, ASTM E-2074, NFPA-252, NFPA-257, UBC 7-2, UBC 7-4, CAN4-S104, and CAN4-S106.

INSTALLATION AND CARE

PYRAN® shall only be installed into listed fire rated frame and window assemblies and glazed using Pemko FG3000S90 glazing tape and calcium silicate setting blocks. Each piece of PYRAN® should be inspected carefully before installation and any pieces with visible edge or surface damage should be sorted out. The stop height has to be chosen according to the PYRAN® listing and the installation of the framed unit must comply with the frame supplier's instructions.

To maintain the aesthetics it is important to keep the glass 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 glass surface. Also, do not allow any metal or hard parts of the cleaning equipment to come in contact with the glass surface.

STORAGE AND HANDLING

PYRAN® fire-protective glass should be handled with care during transportation, storage, inspection and installation. In addition it should be stored only in dry conditions and needs to be stacked upright and separated by an appropriate material. The bottom edge must be supported by an appropriate material along its entire length.

QUALITY STANDARD

PYRAN® is a specialty developed glass-ceramic, that fulfills the fire protective rating requirements. The production process may involve certain optical imperfections, such as bubbles or knots. Since these do not generally impair the transparency of the technical performance of the glass, they do not represent cause for rejection or replacement. Failure to comply with any of the storage, handling, installation, and/or care guidelines may result in a loss of warranty.

LABELING

All products are labeled bearing the manufacturer's name, testing laboratory, rating and safety standards.

SPECIFICATIONS

All glazing shall be designated on the drawings as 3/16" PYRAN® Crystal or 3/16" PYRAN® Crystal-F supplied by AGC InterEdge Technologies.



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