

# PYRAN® Platinum

## Fire-rated glass-ceramics

PYRAN® Platinum is the world's first and only floated glass-ceramic developed specifically for the fire-rated glazing market. Architects appreciate the smooth surface, neutral color and proven technical performance. PYRAN® Platinum fire-rated glass-ceramics are certified by Underwriters Laboratories for fire-protection ratings up to 90 minutes and 180 minutes in doors. For safety-rated applications, filmed and laminated versions are available.

### Fire Test

The Fire Endurance test for fire-protection rated glazing 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 flaming on the non-fire side, and the glazing must survive the test without breaking or cracking. PYRAN® Platinum is tested and certified by Underwriters Laboratories for fire protection up to 90 minutes in windows and 180 minutes in doors. All fire tests performed in accordance with UL9, UL10B, UL10C, UBC7-2 (1997), UBC7-4 (1997), NFPA257, NFPA80, ASTM E2010-01, ASTM E2074-00, ULCCAN4-S104 and ULCCAN4-S106.

### Sound Transmission

The acoustical performance of glazing is described by the Sound Transmission Class (STC) measured by ASTM E90. PYRAN® Platinum L effectively reduces unwanted sound transmission and has an STC rating of 36 (PYRAN® Platinum and PYRAN® Platinum F have an STC rating of 30).

### Hose Stream Test

Immediately following the Fire Endurance Test, the fire-exposed side of the test assembly is subjected to impact from water blast in a prescribed pattern for duration appropriate to the specimen size. The glazing must remain intact in the frame. PYRAN® Platinum fire-rated glass-ceramic passes the hose-stream test thanks to its superior strength and near zero thermal expansion. All hose stream tests performed in accordance with UL9, UL10B, UL10C, UBC7-2 (1997), UBC7-4 (1997), NFPA257, NFPA80, ASTM E2010-01, ASTM E2074-00, ULCCAN4-S104 and ULCCAN4-S106.

### Impact Test

In installations where accidental human impact could occur, fire-rated glazings must also withstand Impact Tests. Impact is tested using a 100-lb weight swung from a pendulum at 48-inch drop height. The glazing must remain intact with no significant openings. PYRAN® Platinum F with a surface applied safety film and PYRAN® Platinum L with an impact-resistant interlayer meet ANSI Z 97.1 and CPSC 16 CFR 1201 (Cat. I & II) impact tests.

|                               | Rating (Minutes) | Location                          | Max. exposed area of glazing  | Max. width of exposed glazing | Max. height of exposed glazing | Min. depth of glazing channel | Impact safety-rated | Thickness |
|-------------------------------|------------------|-----------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|---------------------|-----------|
| PYRAN® Platinum               | Up to 90         | Doors Non-Temp Rise               | 3708" (2.39 m <sup>2</sup> )  | 37 3/4" (959 mm)              | 98 1/4" (2495 mm)              | 5/8" (16 mm)                  | No                  | 5 mm      |
|                               | Up to 180        | Doors Temp Rise and Non-Temp Rise | 100" (0.0645 m <sup>2</sup> ) | 12" (305 mm)                  | 33" (838 mm)                   | 1/2" (12.7 mm)                | No                  | 5 mm      |
|                               | Up to 90         | Transom-, & sidelites, windows    | 4933" (3.194 m <sup>2</sup> ) | 98 1/4" (2495 mm)             | 98 1/4" (2495 mm)              | 5/8" (16 mm)                  | No                  | 5 mm      |
| PYRAN® Platinum F (filmed)    | Up to 90         | Doors Non-Temp Rise               | 3708" (2.39 m <sup>2</sup> )  | 37 3/4" (959 mm)              | 98 1/4" (2495 mm)              | 5/8" (16 mm)                  | Yes                 | 5 mm      |
|                               | Up to 180        | Doors Temp Rise and Non-Temp Rise | 100" (0.0645 m <sup>2</sup> ) | 12" (305 mm)                  | 33" (838 mm)                   | 1/2" (12.7 mm)                | Yes                 | 5 mm      |
|                               | Up to 90         | Other than doors                  | 4933" (3.194 m <sup>2</sup> ) | 98 1/4" (2495 mm)             | 98 1/4" (2495 mm)              | 5/8" (16 mm)                  | Yes                 | 5 mm      |
| PYRAN® Platinum L (laminated) | Up to 90         | Doors Non-Temp Rise               | 3564" (2.392 m <sup>2</sup> ) | 37 3/4" (959 mm)              | 98 1/4" (2495 mm)              | 5/8" (16 mm)                  | Yes                 | 9 mm      |
|                               | Up to 180        | Doors Temp Rise and Non-Temp Rise | 100" (0.0645 m <sup>2</sup> ) | 12" (305 mm)                  | 33" (838 mm)                   | 1/2" (12.7 mm)                | Yes                 | 9 mm      |
|                               | Up to 90         | Transom-, & sidelites, windows    | 3.27" (5065 m <sup>2</sup> )  | 99" (2520 mm)                 | 99" (2520 mm)                  | 5/8" (16 mm)                  | Yes                 | 9 mm      |

PYRAN® Platinum products are classified and labeled by Underwriters Laboratories, Inc. for the United States and Canada with File-No. R22036.

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