

Liberty Shielding

FireLite

FIRE-RATED • GLASS CERAMIC

Firelite® is a 3/16" (5 mm) thick fire-rated glazing material. It is listed for use in non-impact, non-safety-rated locations such as transoms and borrowed lites with fire rating requirements ranging from 20 to 90 minutes.

Features

- UltraHD™ Technology for improved surface quality, clarity and color
- Fire-rated for up to 90 minutes with required hose stream test
- Clear and wire-free glass ceramic
- Fits Liberty Shielding fire-rated window frames
- Withstands thermal shock
- Large sizes available
- Protects from fire on both sides of glass
- May be lightly etched without affecting the fire rating
- Passes positive pressure test
- UL 10C, UBC 7-2 and UBC 7-4
- Available in two surface grades: Premium and Standard

Surface Grades

Standard: Polished for a surface quality that is comparable to alternative fire-rated ceramics marketed as having a premium finish

Premium: Finish ground and polished on both surfaces to provide superior surface quality, improving overall clarity and providing a surface that is unmatched by alternative products.

General Characteristics

- Thickness: 3/16" (5 mm) overall
- Weight: 2.4 Lb / ft²
- Approx. visible transmission: 88%
- Approx. visible reflection: 9%
- Hardness (vicker's scale): 700
- Fire rating: 20 to 90 minutes
- STC rating: 35dB

Specifications

All glass designated on the drawings as fire-rated shall be 3/16" (5 mm) thick Firelite® supplied by Liberty Shieldings. Complete 3-part CSI format specifications are available online at libertyshielding.com

Storage & Handling

Firelite® must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

Installation

Firelite® shall be glazed into the appropriate fire-rated framing with an approved glazing compound (pure silicone, closed cell PVC tape or DAP 33 putty) as supplied by the installer. For 90 minute ratings that exceed 1, 393 in2, Firelite shall be glazed with fire-rated glazing tape as supplied by Liberty Shielding. Inspect each piece of Firelite immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of Firelite may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the

glass, they do not represent cause for rejection.

Listings

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is UL File No. R13377. Tests performed in accordance with: UL 9 ,UL 10B, UL 10C, NFPA 80, NFPA 252, NFPA 257, CAN4 S-104, CAN4 S-106, MEA 290-90-M-6, LARR 25798

Labeling

Each piece of Firelite® shall be permanently labeled with the Firelite® logo, UL logo and fire rating.

Note

-This product is not a barrier to radiant heat, as it does not meet test standards ASTM E-119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact Liberty Shielding regarding Pilkington Pyrostop®.

- FireLite is not an impact safety-rated product and should not be specified as such. However, Liberty Shielding does offer FireLite Plus® and FireLite® NT which carry both fire and impact safety ratings. Please contact Liberty Shielding for more details.

MAXIMUM EXPOSED AREA

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING	OR	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	OTHER THAN DOORS	3,325 in ² / 23.09 ft ² (2.15 m ²)	95" (2,413 mm)		95" (2,413 mm)
90 min.	OTHER THAN DOORS	2,627 in ² / 18.24 ft ² (1.69 m ²)	56-1/2" (1,435 mm)		56-1/2" (1,435 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height.

Note: Individual lite sizes cannot exceed "Max. Exposed Area" shown above.