

# Liberty Shielding

## FireLite Plus

### FIRE-RATED • LAMINATED • SAFETY-RATED • GLASS CERAMIC

Firelite®Plus is a 5/16" (8mm) thick fire-rated and impact safety-rated glazing material, composed of laminated Firelite ceramic glass. It is listed for use in doors, sidelites, transoms and borrowed lites with fire rating requirements ranging from 20 minutes to 3 hours.

### Features

- UltraHD™ Technology for improved surface quality, clarity and color
- Fire-rated for up to 3 hours with required hose stream test
- Impact safety-rated-meets ANSI Z97.1 and CPSC 16 CFR 1201 (Cat. I and II)
- Laminated glass ceramic
- Clear and wire-free
- Fits Liberty Shielding fire-rated window frames
- Withstands thermal shock
- Large sizes available
- Protects from fire on both sides of glass
- Firelite side may be lightly etched without affecting the fire rating
- Passes positive pressure test
- UL 9, UL 10B, UL 10C, NFPA 80, NFPA 252, NFPA 257, UBC 7-2 and UBC 7-4
- 5-year limited warranty
- Thickness: 5/16" (8mm) overall
- Weight: 4 Lb / ft<sup>2</sup>
- Approx. visible transmission: 85%
- Approx. visible reflection: 9%
- Hardness (vicker's scale): 700
- Fire rating: 20 minutes to 3 hours
- Impact safety rating: meets ansi z97.1 And CPSC 16 CFR 1201 (CAT. I and 11)
- STC rating: 38dB

### General Characteristics

### Specifications

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

### Storage & Handling

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

## Installation

Firelite®Plus 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 in<sup>2</sup>, Firelite Plus shall be glazed with fire-rated glazing tape as supplied by Liberty Shielding. Inspect each piece of Firelite Plus 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 Plus 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.

## Labeling

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

## 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

## 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®.

## Other Glass Products

- Laminated Fire Glass
- Fire Resistive Laminated Glass
- Bullet Resistant Glass Clad Polycarbonate
- Bullet Resistant, Fire Resistive, 2 Hour Fire Rated Laminated Glass
- Leaded X-Ray Glass

**MAXIMUM EXPOSED AREA**

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING	OR	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	DOORS (non-temp rise)	3,204 in <sup>2</sup> / 22.25 ft <sup>2</sup> (2.07 m <sup>2</sup> )	36" (914 mm)		89" (2,260 mm)
	DOORS (temp rise)	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 mm)
	OTHER THAN DOORS	3,325 in <sup>2</sup> / 23.09 ft <sup>2</sup> (2.15 m <sup>2</sup> )	95" (2,413 mm)		95" (2,413 mm)
90 min.	DOORS (non-temp rise)	2,034 in <sup>2</sup> / 14.13 ft <sup>2</sup> (1.31 m <sup>2</sup> )	36" (914 mm)		56-1/2" (1,435 mm)
	DOORS (temp rise)	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 mm)
	OTHER THAN DOORS	2,627 in <sup>2</sup> / 18.24 ft <sup>2</sup> (1.69 m <sup>2</sup> )	56-1/2" (1,435 mm)		56-1/2" (1,435 mm)
180 min.	DOORS	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 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.