

Liberty Shielding

FireLite IGU

FIRE-RATED • SAFETY-RATED • INSULATED GLASS UNITS

Firelite® IGU is composed of Firelite products and tempered, laminated, or annealed glass products. It is listed for use in fire-rated applications with ratings from 20 minutes to 3 hours (must be specified with either Firelite®NT or Firelite Plus® for 3 hour rating).

Features

- Now with ultraHD™ Technology for improved surface quality, clarity and color
- Clear and wireless
- Fire-rated for up to 3 hours with required hose stream test
- Impact safety-rated version meets ANSI Z97.1 and CPSC 16CFR 1201 (Cat. I and 11)
- Large sizes available
- Typical 1" thickness fits Liberty Shielding fire-rated frames (other thicknesses available)
- Available incorporating a variety of glass products, including (but not limited to):
 - Tinted, Decorative, One-Way Mirror, Low-E, Reflective, Lead Glass (X-Ray)
 - May be lightly sandblasted or etched on one side without affecting fire rating
 - Passes positive pressure test standards UL 10C, UBC 7-2 and UBC 7-4
 - 10-year limited warranty
 - Stainless steel spacers
 - Decorative films
 - Seal: dual-seal polysulfide units
 - U-Value: Similar to standard insulating units with a make-up of (1/4" float glass + 1/2" air space + 1/4" float glass)
 - Summer U-Value: Approx..55*
 - Winter U-Value: Approx..49*

*U-values increase with use of high performance float glass products.

STC Rating: Firelite® - 9/16" air space - 1/4" float glass = 35 dB** **values were achieved with these specific make ups

Specifications

All glass designated on the drawings as Firelite®IGU supplied by Liberty Shieldings. Complete 3-part CSI format specifications are available online at libertyshielding.com

Storage & Handling

Firelite®IGU must be handled with care during transportation, storage, inspection and installation

Installation

Firelite®IGU 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 IGU shall be glazed with fire-rated glazing tape as supplied by Liberty Shielding. Inspect each piece of Firelite IGU 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 IGU 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®IGU shall be permanently labeled with the Firelite®IGU 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 ² / 22.25 ft ² (2.07 m ²)	36" (914 mm)		89" (2,260 mm)
	DOORS (temp rise)	100 in ² / 0.69 ft ² (.06 m ²)	12" (304 mm)		33" (838 mm)
	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.	DOORS (non-temp rise)	2,034 in ² / 14.13 ft ² (1.31 m ²)	36" (914 mm)		56-1/2" (1,435 mm)
	DOORS (temp rise)	100 in ² / 0.69 ft ² (.06 m ²)	12" (304 mm)		33" (838 mm)
	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)
180 min.	DOORS	100 in ² / 0.69 ft ² (.06 m ²)	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.