



FIRE-RATED



HOSE STREAM TESTED



IMPACT-RATED



ENERGY EFFICIENT



POSITIVE PRESSURE TESTED



FIRE-RATED OR FIRE/IMPACT SAFETY-RATED INSULATED GLASS UNITS (IGU)

FireLite® IGU is composed of FireLite products and tempered or annealed float glass. 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). Trusted for over 20 years, the FireLite family of products now feature ultraHD® Technology for superior color and surface quality.



FEATURES

- **Now with ultraHD® Technology for improved surface quality, clarity and color**
- Available in two surface finishes for clear viewing, Standard Grade and Premium Grade
- 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 16CFR1201 (Cat. I and II)
- Large sizes available
- Typical 1" thickness fits in Fireframes® Designer Series or Fireframes Hardwood Series from TGP, or standard fire-rated frames (variable thicknesses available)
- Available incorporating a variety of glass products, including (but not limited to):
 - Tinted
 - Low-E
 - Art Glass
 - Reflective
 - One-Way Mirror
 - Lead Glass (X-Ray)
- May be lightly sandblasted or etched on one side without affecting fire rating
- Passes positive pressure test standards UL 10C
- 10-year limited warranty
- Stainless steel spacers
- Decorative films approved by TGP

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 Technical Glass Products regarding Pilkington Pyrostop®.

LISTINGS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. Tests performed in accordance with UL 9, UL 10B, UL 10C, CSFM 43.7, NFPA 80, NFPA 252, NFPA 257, CAN4 S-104, and CAN4 S-106. Approved for use in Los Angeles: LARR 25798.

GENERAL CHARACTERISTICS

U-VALUE Similar to standard insulating units with a make-up of: 1/4" float glass - 1/2" air space - 1/4" float glass (6.4 mm float glass - 12.7 mm air space - 6.4 mm float glass)

Summer U-Value: Approximately .55*

Winter U-Value: Approximately .49*

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

| | | | | | | | |
|-------------------|----------------------------|---|----------------------------|---|---------------------------|---|---------|
| STC RATING | 3/16" (5 mm) FireLite | - | 9/16" (14.23 mm) air space | - | 1/4" (6.4 mm) float glass | = | 35 dB** |
| | 3/16" (5 mm) FireLite NT | - | 9/16" (14.23 mm) air space | - | 1/4" (6.4 mm) float glass | = | 35 dB** |
| | 5/16" (8 mm) FireLite Plus | - | 9/16" (14.23 mm) air space | - | 1/4" (6.4 mm) float glass | = | 38 dB** |

** Values were achieved with these specific make ups.

| 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) |
| 3 hour | 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.

| | | | |
|------------------------|--------------------------------|--------------------------------|-------------------------------|
| SURFACE FINISH | Premium | Standard | Obscure |
| MAX. SHEET SIZE | 48" x 96" (1.21 m x 2.43 m) | 48" x 96" (1.21 m x 2.43 m) | 36" x 96" (.91 m x 2.43 m) |

SPECIFICATIONS

Due to the great variety of possible make-ups with FireLite IGU, please call Technical Glass Products at **800.426.0279** for assistance when preparing specifications. Additional specification information is available at fireglass.com

LABELING

Each unit of FireLite IGU shall be permanently labeled with the FireLite IGU logo, UL logo and fire rating.

INSTALLATION

FireLite IGU shall be glazed into the appropriate fire-rated framing with an approved glazing compound (polysulfide sealant or closed cell PVC tape) as supplied by the installer. For 90 minute ratings that exceed 1,393 in² (.8987 m²) FireLite IGU shall be glazed with fire-rated glazing tape as supplied by TGP.

Note: Do not use pure silicone.

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.

STORAGE & HANDLING

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

FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at fireglass.com, or by calling **800.426.0279**.

