

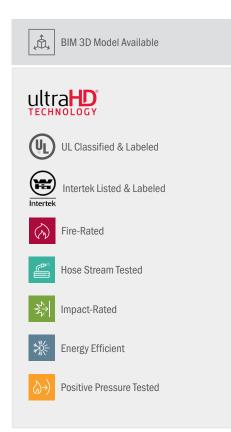
FireLiteⁱGU

Fire-Rated or Fire/Impact Safety-Rated Insulated Glass Unit (IGU) Fire-Rating: 20-180 Minutes*

FireLite IGU is composed of FireLite glass ceramic products and tempered float glass. Make-ups that achieve 3-hour fire ratings must be specified with FireLite NT or FireLite Plus[®].

FEATURES

- ultraHD[®] Technology for improved surface quality, clarity and color
- Fire-rated for up to 180 minutes* with required hose stream test
- Clear and wireless glass ceramic
- Impact safety-rated-meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)
- Typical 1" (25.4 mm) thickness fits in Fireframes[®] Designer Series or Fireframes Hardwood Series from TGP, or standard firerated frames (variable thicknesses available)
- Available incorporating a variety of glass products, including (but not limited to): Tinted; Art Glass; One-Way Mirror; Low-E; Reflective; Lead Glass (X-Ray)
- · Withstands thermal shock
- Large sizes available
- May be lightly sandblasted or etched on one side without affecting fire rating
- 10-year limited warranty



Note: This product is not a barrier to radiant heat, as it does not meet test standards ASTM E119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact TGP regarding Fireglass[®].

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.[®] and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. FireLite products have been tested to BS 476-20 up to 3 hours for 1.21 m x 2.43 m and .91 m x 2.43 m dimensions. Tests performed in accordance with:

UL 9	NFPA 80	CAN/ULC-S104	BS 476-20
UL 10B	NFPA 252	CAN/ULC-S106	
UL 10C	NFPA 257		

*For Warnock Hersey | Intertek listed products, tested to BS 476 Part 22 (1987), EN 1364-1 (2015), BS 476 Part 20 (1987), EN 1634-1:2014+A1(2018), see spec ID 50721 and/or certificate number WH19-33395001 for specific sizes and limitations.



MAXIMUM EXPOSED AREA

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

MAXIMUM SHEET SIZE

SURFACE FINISH	48" x 96"	36" x 96"
	(1.21 m x 2.43 m)	(.91 m x 2.43m)

GENERAL CHARACTERISTICS

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 3/16" (5 mm) FireLite NT 5/16" (8 mm) FireLite Plus **Values were achieved with t	9/16" (14.23 mm) air space 9/16" (14.23 mm) air space 9/16" (14.23 mm) air space	1/4" (6.4 mm) float glass 1/4" (6.4 mm) float glass 1/4" (6.4 mm) float glass	35** 35** 38**	

LABELING

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



FireLite^{*}IGU

INSTALLATION

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

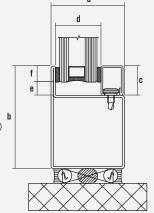
Note: Pure silicone can be used for a cap seal or cap bead

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.



Glazing Thickness: 1" (25.4 mm)

- a. Frame width: 2" (51 mm)
- **b**. Frame height: 2-3/4" (70 mm)
- c. Stop height: 3/4" (19 mm)
- d. Pocket width: 1-1/4" (31.5 mm)
- e. Edge clearance: 1/4" (6.4 mm)
- f. Bite: 1/2" (12.7 mm)



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.

FireLite[®]

Fire-rated glass ceramic

Fire-rated, impact safety-rated glass ceramic with surface-applied film

FireLite Plus® Fire-rated, impact safety-rated glass ceramic

FireLite[®] IGU Fire-rated or fire/impact safety-rated insulated glass units

Fireglass®

Fire-rated, impact safety-rated glass firewalls

Fireglass® BR Fire-rated, impact safety-rated bullet-resistant glass firewalls

WireLite[®] Fire-rated, wired glass

WireLite® NT Fire-rated, impact safety-rated wired glass with surface-applied film

Fire-rated framing & doors for use with all TGP glass products

fireglass.com | 800.426.0279



© March 2022 Technical Glass Products, Inc. FIRELITE and FIRELITE PLUS are registered trademarks of Nippon Electric Glass Co., Ltd. TECHNICAL GLASS PRODUCTS, WIRELITE, FIREFRAMES, FIREGLASS, ONE SOURCE. MANY SOLUTIONS. and ULTRAHD are registered trademarks of Technical Glass Products, Inc. This information is intended for general reference only. For current listing details, please call Technical Glass Products.