

## FIRE-RATED, SAFETY-RATED GLASS CERAMIC

FireLite Plus is a 5/16" (8 mm) thick laminated fire-rated and impact safety-rated glazing material. It is listed for use in doors, sidelites, transoms and borrowed lites.



**FIRE RATING**  
20 - 180 MINUTES



**ultraHD**  
TECHNOLOGY

### FEATURES

- ultraHD® Technology for improved surface quality, clarity and color
- Fire-rated for up to 180 minutes with required hose stream test
- Available in two surface grades: Premium and Standard
- Clear and wireless glass ceramic
- Impact safety-rated—meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)
- Fits in Fireframes® Designer Series from TGP, or standard fire-rated frames
- Withstands thermal shock
- Large sizes available
- May be lightly sandblasted or etched on one side without affecting fire rating
- Protects from fire and impact on both sides of the glass
- May be insulated (see FireLite IGU fact sheet)
- 5-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 Pilkington Pyrostop®.

### SURFACE GRADES

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

**Premium Grade** - 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.

### LISTINGS/STANDARDS

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	NFPA 80	CAN/ULC-S104	MEA 290-90-M-6
UL 10B	NFPA 252	CAN/ULC-S106	LARR 25798
UL 10C	NFPA 257		



BIM 3D Model



Fire-Rated



Hose Stream Tested



Positive Pressure Tested



Impacted Rated



UL Classified & Labeled



NORTH AMERICA'S  
**MOST SPECIFIED**  
FIRE-RATED GLASS COMPANY

## 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.

## MAXIMUM SHEET SIZE

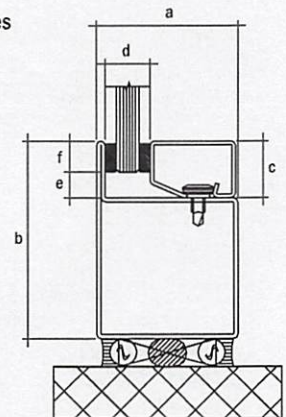
SURFACE FINISH	Premium	Standard
	48" x 96" (1.21 m x 2.43 m)	48" x 96" (1.21 m x 2.43 m)

## GENERAL CHARACTERISTICS

THICKNESS:	Nominal 5/16" (8 mm) overall
WEIGHT:	4 lb / ft <sup>2</sup> (19.53 kg / m <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 16CFR1201 (Cat. I and II)
STC RATING:	38

Detail based on use of Fireframes Designer Series narrow profile framing

Glazing Thickness:	5/16" - 1" (8 mm - 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:	1/2" - 1-1/4" (12.7 mm x 31.8 mm)
e. Edge clearance:	1/4" (6.4 mm)
f. Bite:	1/2" (12.7 mm)



## LABELING

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

## INSTALLATION

FireLite Plus shall be glazed into the appropriate fire-rated framing with an approved glazing compound (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> (.8987 m<sup>2</sup>), FireLite Plus shall be glazed with fire-rated glazing tape as supplied by TGP.

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.

## STORAGE & HANDLING

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