

## FIRE-RATED, IMPACT SAFETY-RATED GLASS CERAMIC WITH SURFACE-APPLIED FILM

FireLite NT is a 3/16" (5 mm) thick fire-rated and impact safety-rated glazing material, composed of FireLite and fire-rated surface-applied film. It is listed for use in doors, sidelites, transoms and borrowed lites.

 **FIRE RATING**  
20 - 180 MINUTES

 **ultraHD<sup>®</sup>**  
TECHNOLOGY

### FEATURES

- ultraHD<sup>®</sup> 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
- Wireless glass ceramic with high performance surface-applied approved fire rated film
- Impact safety-rated-meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)
- Fits in Fireframes<sup>®</sup> Designer Series from TGP, or standard fire-rated frames
- Withstands thermal shock
- Large sizes available
- May be lightly sandblasted or etched on the unfiled side without affecting fire rating
- Protects from fire and impact on both sides of the glass
- May be insulated (see FireLite IGU fact sheet)
- 3-year limited warranty



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

**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 TG regarding Pilkington Pyrostop<sup>®</sup>

### 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.<sup>®</sup> and Underwriters Laboratories of Canada. File number for Fire-protection-rated glazing material is R21586. 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

## 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) DOORS (temp rise) OTHER THAN DOORS	3,204 in <sup>2</sup> / 22.25 ft <sup>2</sup> (2.07 m <sup>2</sup> ) 100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> ) 3,325 in <sup>2</sup> / 23.09 ft <sup>2</sup> (2.15 m <sup>2</sup> )
90 min.	DOORS (non-temp rise) DOORS (temp rise) OTHER THAN DOORS	2,034 in <sup>2</sup> / 14.13 ft <sup>2</sup> (1.31 m <sup>2</sup> ) 100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> ) 2,627 in <sup>2</sup> / 18.24 ft <sup>2</sup> (1.69 m <sup>2</sup> )	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 <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	Obscure
	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 2.43m)

## GENERAL CHARACTERISTICS

**THICKNESS:** 3/16" (5 mm) overall

**WEIGHT:** 2.56 lb / ft<sup>2</sup> (12.5 kg / m<sup>2</sup>)

**APPROX. VISIBLE TRANSMISSION:** 88%

**APPROX. VISIBLE REFLECTION:** 9%

**HARDNESS (VICKER'S SCALE):** 700

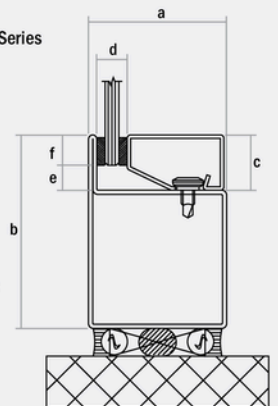
**FIRE RATING:** 20 minutes to 3 hours

**IMPACT SAFETY RATING:** Meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II)

**STC RATING:** 35

Detail based on use of Fireframes Designer Series narrow profile framing

- Glazing Thickness: 3/16" - 1"  
(5 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

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

## INSTALLATION

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FireLite NT 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 NT shall be glazed with fire-rated glazing tape as supplied by TG.

Inspect each piece of FireLite NT 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 NT 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

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