Fire-Rated, Safety-Rated Glass Ceramic

Fire-Rating: 20-180 Minutes

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.

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

Notes: 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:

<table>
<thead>
<tr>
<th>UL 9</th>
<th>NFPA 80</th>
<th>CAN4 S-104</th>
<th>MEA-290-90-M-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL 10B</td>
<td>NFPA 252</td>
<td>CAN4 S-106</td>
<td>LARR 25798</td>
</tr>
<tr>
<td>UL 10C</td>
<td>NFPA 257</td>
<td></td>
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</tbody>
</table>
### MAXIMUM EXPOSED AREA

<table>
<thead>
<tr>
<th>RATING</th>
<th>ASSEMBLY</th>
<th>MAX. EXPOSED AREA</th>
<th>MAX. WIDTH OF EXPOSED GLAZING</th>
<th>OR MAX. HEIGHT OF EXPOSED GLAZING</th>
</tr>
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<tbody>
<tr>
<td>20 to 60 min.</td>
<td>DOORS (non-temp rise)</td>
<td>3,204 in² / 22.25 ft² (2.07 m²)</td>
<td>36” (914 mm)</td>
<td>89” (2,260 mm)</td>
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<tr>
<td></td>
<td>DOORS (temp rise)</td>
<td>100 in² / 0.69 ft² (.06 m²)</td>
<td>12” (304 mm)</td>
<td>33” (838 mm)</td>
</tr>
<tr>
<td></td>
<td>OTHER THAN DOORS</td>
<td>3,325 in² / 23.09 ft² (2.15 m²)</td>
<td>95” (2,413 mm)</td>
<td>95” (2,413 mm)</td>
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<tr>
<td>90 min.</td>
<td>DOORS (non-temp rise)</td>
<td>2,034 in² / 14.13 ft² (1.31 m²)</td>
<td>36” (914 mm)</td>
<td>56-1/2” (1,435 mm)</td>
</tr>
<tr>
<td></td>
<td>DOORS (temp rise)</td>
<td>100 in² / 0.69 ft² (.06 m²)</td>
<td>12” (304 mm)</td>
<td>33” (838 mm)</td>
</tr>
<tr>
<td></td>
<td>OTHER THAN DOORS</td>
<td>2,627 in² / 18.24 ft² (1.69 m²)</td>
<td>56-1/2” (1,435 mm)</td>
<td>56-1/2” (1,435 mm)</td>
</tr>
<tr>
<td>180 min.</td>
<td>DOORS</td>
<td>100 in² / 0.69 ft² (.06 m²)</td>
<td>12” (304 mm)</td>
<td>33” (838 mm)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SURFACE FINISH</th>
<th>Premium</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot; x 96&quot;</td>
<td>48&quot; x 96&quot;</td>
<td>(1.21 m x 2.43 m)</td>
</tr>
</tbody>
</table>

### GENERAL CHARACTERISTICS

- **THICKNESS:** Nominal 5/16" (8 mm) overall
- **WEIGHT:** 4 lb / ft² (19.53 kg / m²)
- **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 16FR1201 (Cat. I and II)
- **STC RATING:** 38

### LABELING

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

Detail based on use of Fireframes Designer Series narrow profile framing

- **Glazing Thickness:** 5/16" – 1" (8 mm - 25.4 mm)
- **Frame width:** 2" (51 mm)
- **Frame height:** 2-3/4" (70 mm)
- **Stop height:** 3/4" (19 mm)
- **Pocket width:** 1/2" – 1-1/4" (12.7 mm x 31.8 mm)
- **Edge clearance:** 1/4" (6.4 mm)
- **Bite:** 1/2" (12.7 mm)
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 in² (.8987 m²), 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.

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.

- **Fireglass®20**
  - Fire-rated, impact safety-rated glass
- **FireLite®**
  - Fire-rated glass ceramic
- **FireLite® NT**
  - 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
- **Pilkington Pyrostop®**
  - Fire-rated, impact safety-rated transparent wall panels
- **WireLite®**
  - Fire-rated, wired glass
- **WireLite® NT**
  - Fire-rated, impact safety-rated wired glass with surface-applied film
- **Fireframes®**
  - Fire-rated framing & doors for use with all TGP glass products