Fire-Rated Silicone Glazed Steel Curtain Wall
Patent NO. 8,567,142
Fire Rating: Up to 120 Minutes

Fireframes SG Curtainwall® Series allows design professionals to create large, fire-rated glazed walls with the smooth, monolithic appearance of a structural silicone glazed system. Featuring a patented toggle retention system that allows for rapid installation of Fireglass® fire-resistant-rated glass while being completely hidden once installed.

**FEATURES**
- Fire ratings of 45, 60 and 120 minutes with required hose stream test
- Unrestricted glazing area for use in locations where total glazing exceeds 25% of wall (60 and 120 minutes)
- Compatible with full-lite doors from TGP available in single leaf or double leaf design (see Fireframes® Designer Series or Fireframes® Heat Barrier Series)
- Air and water pressure tested and approved for exterior use
- Durable narrow steel and stainless steel profiles ensure low maintenance system
- Select profiles available in 304 brushed stainless steel for fire ratings up to 60 minutes (#4 finish)
- Silicone sealed for smooth monolithic appearance, no pressure plates or caps
- Shear block fabrication system
- Easy installation using unique toggle retention system
- Captured option available (perimeter, 2-sided, or other design-based configurations)
- Frames supplied "K-D" (knock-down) ready for installation
- Finish painted at the factory to match desired color scheme
- Incorporates large individual panes of Fireglass fire-resistant-rated glass, comprised of Pilkington Optiwhite™ glass and clear intumescent interlayers

**LISTINGS/STANDARDS**
Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number R25274 (walls), R25229 (windows), design number U554 (W495 Canada). Frame tests performed in accordance with:

- UL 9
- NFPA 251
- CAN/ULC-S101
- ASTM E-119
- UL 263
- NFPA 257
- CAN 4 S-106
- ASTM E-119

**FRAMING**

<table>
<thead>
<tr>
<th>RATING</th>
<th>MAX. EXPOSED GLASS AREA PER PIECE</th>
<th>MAX. EXPOSED GLASS DIMENSION</th>
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<tbody>
<tr>
<td>45 min.*</td>
<td>4,500 in² (2.90 m²)</td>
<td>95–1/4&quot; (2.42 m)</td>
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<tr>
<td>60 min.**</td>
<td>7,442 in² (4.80 m²)</td>
<td>118-1/8&quot; (3.00 m)</td>
</tr>
<tr>
<td>120 min.**</td>
<td>3,730 in² (2.41 m²)</td>
<td>111&quot; (2.81 m)</td>
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**Note:** Exposed area and size limitations are calculated from the frame side as DLO.

* 45 minute window systems are classified as an Opening Protective as per UL 9 with a maximum overall frame size of 152 square feet.
** 60 and 120-minute tests conducted per UL 263 / ASTM E-119. Therefore assembly is classified as a wall assembly, and not subject to "opening" area limitations.