Fire-Rated, Narrow-Profile Aluminum Frames
Patent No. 9,045,900
Fire Rating: 45/60/120 Minutes

Fireframes® Aluminum Series combined with Pilkington Pyrostop® glass, provides a barrier to radiant and conductive heat transfer. The narrow aluminum profiles allow unlimited areas of glazing in interior and exterior fire separations.

FEATURES

• Fire ratings of 45-120 minutes
• Patented system features extruded aluminum framing with crisp edges and narrow sightlines
• Custom aluminum face caps available to meet project needs
• Easy installation
• Frames supplied “K-D” (knock-down) ready for installation
• Incorporates large individual panes of Pilkington Pyrostop fire-resistive-rated glass, comprised of low-iron Pilkington OptiWhite™ glass and clear intumescent interlayers
• Compatible with doors in full-lite single leaf or double leaf design from TGP (see Fireframes® Designer Series or Fireframes Heat Barrier Series)
• Standard finish is clear anodized. Powder coating and other anodized finishes are available
• Door hardware available to fit functional requirements. Check with TGP for compatibility
• Passes wall assembly test standard UL 263 / ASTM E119 for 60 and 120 minute ratings

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File numbers R19207 (doors), R25229 (windows), R25274 (walls), design number U558 (U416 Canada). Frame tests performed in accordance with:

UL 9
UL 10B
UL 263

NFPA 251
NFPA 257

CAN/ULC-S101

ASTM E119
ASTM E283
ASTM E330
ASTM E331

LARR 25798

SPECIFICATIONS

Complete 3-part CSI format specifications are available online at fireglass.com, or by calling 800.426.0279.
ALUMINUM SERIES
DOORS

RATING | MAX. SINGLE DOOR LEAF SIZE | MAX. EXPOSED GLASS SIZE PER PIECE
--- | --- | ---
45 min.* | 42” x 96” (1.07 m x 2.44 m) | 36” x 89” (.91 m x 2.26 m)
60 min.** | 42” x 96” (1.07 m x 2.44 m) | 36” x 89” (.91 m x 2.26 m)
90 min. | 43” x 95-7/8” (1.09 m x 2.44 m) | 36” x 56-1/2” (divided lite door) (.91 m x 1.44 m)

** 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.

FRAMING

<table>
<thead>
<tr>
<th>RATING</th>
<th>MAX. EXPOSED GLASS AREA PER PIECE</th>
<th>MAX. EXPOSED GLASS DIMENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 min.*</td>
<td>4,500 in² (2.90 m²)</td>
<td>95-1/4 in (2.42 m)</td>
</tr>
<tr>
<td>60 min.**</td>
<td>7,442 in² (4.80 m²)</td>
<td>118-1/8 in (3.00 m)</td>
</tr>
<tr>
<td>120 min.**</td>
<td>3,730 in² (2.41 m²)</td>
<td>111 in (2.81 m)</td>
</tr>
</tbody>
</table>

*45 minute window systems are classified as an Opening Protective as per UL 9 with a maximum overall frame size of 152 square feet.

ELEVATION VIEW

DOORS

RATING | MAX. SINGLE DOOR LEAF SIZE | MAX. EXPOSED GLASS SIZE PER PIECE
--- | --- | ---

Fireframes Designer Series

<table>
<thead>
<tr>
<th>RATING</th>
<th>MAX. SINGLE DOOR LEAF SIZE</th>
<th>MAX. EXPOSED GLASS SIZE PER PIECE</th>
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</thead>
<tbody>
<tr>
<td>20 min.</td>
<td>42” x 96” (1.07 m x 2.44 m)</td>
<td>36” x 89” (.91 m x 2.26 m)</td>
</tr>
<tr>
<td>45 min.</td>
<td>42” x 96” (1.07 m x 2.44 m)</td>
<td>36” x 89” (.91 m x 2.26 m)</td>
</tr>
<tr>
<td>60 min.</td>
<td>42” x 96” (1.07 m x 2.44 m)</td>
<td>36” x 89” (.91 m x 2.26 m)</td>
</tr>
<tr>
<td>90 min.</td>
<td>43” x 95-7/8” (1.09 m x 2.44 m)</td>
<td>36” x 56-1/2” (divided lite door) (.91 m x 1.44 m)</td>
</tr>
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Fireframes Designer Series Temperature Rise Doors with Pilkington Pyrostop

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</tr>
</thead>
<tbody>
<tr>
<td>60 min.</td>
<td>43” x 95-7/8” (1.09 m x 2.44 m)</td>
<td>35-7/8” x 88-3/4” (.91 m x 2.25 m)</td>
</tr>
<tr>
<td>90 min.</td>
<td>43” x 95-7/8” (1.09 m x 2.44 m)</td>
<td>35-7/8” x 88-3/4” (.91 m x 2.25 m)</td>
</tr>
</tbody>
</table>

Fireframes Heat Barrier Series Temperature Rise Doors with Pilkington Pyrostop

<table>
<thead>
<tr>
<th>RATING</th>
<th>MAX. SINGLE DOOR LEAF SIZE</th>
<th>MAX. EXPOSED GLASS SIZE PER PIECE</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 min.</td>
<td>48-7/8” x 95-15/16” (1.24 m x 2.44 m)</td>
<td>41-5/8” x 89-3/4” (1.06 m x 2.28 m)</td>
</tr>
<tr>
<td>90 min.</td>
<td>48-7/8” x 95-15/16” (1.24 m x 2.44 m)</td>
<td>41-5/8” x 89-3/4” (1.06 m x 2.28 m)</td>
</tr>
</tbody>
</table>

# HEAD SECTION

INTERIOR APPLICATION

fireglass.com | 800.426.0279
Details shown use Fireframes Designer Series Doors by TGP.