Customer: FyreWerks, Inc.
Class: Fire Doors
Location: Westminster, Colorado
Website: www.fyrewerks.com

Listing No. F415
Project No. F415-1 Edition 3

Effective Date: September 15, 2016
Last Revised: October 9, 2019
Expires: N/A

Standards:
- UL 10B Fire Tests of Door Assemblies
- UL 10C Positive Pressure Fire Tests of Door Assemblies
- NFPA 252 Standard Methods of Fire Tests of Door Assemblies
- CAN/ULC S104 Standard Method for Fire Tests of Door Assemblies

Product: 90 minute Fire Rated Doors
Label: See FD001 - Fire Door Labeling requirements

Models: 90-MINUTE LAMINATED CORE PANEL DOORS:

Minimum 1-3/4” Thickness

<table>
<thead>
<tr>
<th>Swing Type:</th>
<th>Maximum Dimensions</th>
<th>Panel Type:</th>
<th>Latching:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Swing</td>
<td>Width: 4’0” (1219 mm)</td>
<td>Length: 8’0” (2438 mm)</td>
<td>Raised or Flat</td>
</tr>
</tbody>
</table>

Minimum 2-1/4” Thickness

<table>
<thead>
<tr>
<th>Swing Type:</th>
<th>Maximum Dimensions</th>
<th>Panel Type:</th>
<th>Latching:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Swing</td>
<td>Width: 3’0” (914 mm)</td>
<td>Length: 9’0” (2743 mm)</td>
<td>Raised or Flat</td>
</tr>
</tbody>
</table>

Temperature rise
- @30 min = 250°F MAX where lites do not exceed 100 in²
Limitations: (Review Machining Report for further detail)

- Cylindrical Latches (Listed and Labeled)
- Mortise Lockset (Listed and Labeled)
- Fire Exit Devices – Surface mounted vertical rod and RIM exit devices.
- Surface mounted and concealed door closer.
- Light Kit – Max 100 square inches, max length = 25”, max width = 10” (listed and labeled vision kit)
- Surface mounted door bottom (listed and labeled)
- Electric Raceway
- Louvers – Advantage Lites and Louvers model 200AIL

Notes:

Refer to QAI evaluation report F415-1 and the applicable test reports for test assembly configurations used for fire endurance testing.

Refer to the QAI FD002 - Fire Door Guidelines for general guidelines of fire door assemblies

Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction (AHJ).

Product is to be installed in accordance with the manufacturer’s published installation instructions by qualified installing personnel.

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