FIRE DOOR LISTING PROGRAM

Customer: CR Doors & Moulding LLC
Class: Fire Doors
Location: Springville, UT
Website: www.crdoors.net

Listing No. F451-1
Project No. F451-1 Edition 1

Effective Date: January 5, 2018
Last Revised Date: January 5, 2018

Standards:
- UL 10(b) Fire Tests of Doors Assemblies.
- UL 10(c) Fire Tests of Doors Assemblies.

Product: 60 min Rated Positive Pressure Fire Doors

Markings: See FD001 - Fire Door Labeling requirements

Models: 60-MINUTE LAMINATED CORE PANEL AND FLUSH DOORS:

<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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3'6&quot; (1067 mm)</td>
<td>8'0&quot; (2438 mm)</td>
<td>Flat or Raised</td>
<td>Single Point (Mortised or Cylindrical)</td>
</tr>
<tr>
<td>4'0&quot; (1219 mm)</td>
<td>7'0&quot; (2134 mm)</td>
<td>Flush Milled, Flat or Raised</td>
<td></td>
</tr>
<tr>
<td>3'6&quot; (1067 mm)</td>
<td>9'0&quot; (2743 mm)</td>
<td>Flat or Raised</td>
<td></td>
</tr>
<tr>
<td>4'0&quot; (1219 mm)</td>
<td>8'0&quot; (2438 mm)</td>
<td>Flat or Raised</td>
<td></td>
</tr>
<tr>
<td>Arched Top Single Swing</td>
<td>3'6&quot; (1067 mm)</td>
<td>9'0&quot; (2743 mm)</td>
<td>Flat or Raised</td>
</tr>
<tr>
<td>Pairs</td>
<td>7'0&quot; (2134 mm)</td>
<td>8'0&quot; (2438 mm)</td>
<td>Flat or Raised</td>
</tr>
<tr>
<td>8'0&quot; (2438 mm)</td>
<td>7'0&quot; (2134 mm)</td>
<td>Flat or Raised</td>
<td></td>
</tr>
<tr>
<td>Double Egress</td>
<td>7'0&quot; (2134 mm)</td>
<td>8'0&quot; (2438 mm)</td>
<td>Flat or Raised</td>
</tr>
</tbody>
</table>

*All door assemblies are certified for Shallow Arch door construction

Temperature rise
- @30 min = 250°F MAX where lites do not exceed 100 in²
- @60 min = 450°F MAX where light do not exceed 100 in²
Limitations: (Review Machining Report for further detail)

- Surface Mounted Hardware
- Cylindrical Latches (Listed and Labelled)
- Mortise manual or automatic flush bolts
- Mortise Lockset (Listed and Labelled)
- Listed Viewers
- Fire Exit Devices
  - Surface mounted vertical rod, RIM and concealed vertical rod exit devices
- Surface Mounted and concealed door closer (Listed and Labelled)
- Light Kit (Listed and Labelled)
  - Listed Steel Lite Kit – max. 1296 sq. in. (max dimension of 54”)
  - BASF Proprietary steel channel light kit – max. 1296 sq. in. (max. dimension of 54”)
- Electric Raceway
- Surface Mounted and concealed door bottom (Listed and Labelled)
  - Max mortise 1-3/4” deep by 1” wide by full width of the door

Notes: Refer to QAI evaluation report F451-1 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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