FIRE DOORS LISTING PROGRAM

Customer: Visser Manufacturing Ltd.
Class: Fire Doors
Location: Ottawa, ON
Website: vissermfg.ca

Listing No. F449-1
Project No. F449-1 Edition 1
Effective Date: January 1, 2018
Last Revised Date: January 1, 2018

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

Product: 90 min Rated Neutral Pressure Fire Doors
Labels: See FD001 - Fire Door Labeling requirements
Models: 90-MINUTE MINERAL CORE FLUSH 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&quot; (1219 mm)</td>
<td>Length: 10’0” (3048 mm)</td>
<td>Flush</td>
</tr>
<tr>
<td>Pairs</td>
<td>Width: 6’0” (1829 mm)*</td>
<td>Length: 7’0” (2134 mm)*</td>
<td>Flush</td>
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<tr>
<td></td>
<td>Width: 8’0” (2438 mm)+</td>
<td>Length: 8’0” (2438 mm)+</td>
<td>Flush</td>
</tr>
</tbody>
</table>

* Metal Edges with Astragal required
± Vertical Rod Fire Exit Hardware on both leaves and Metal Edges are required
Limitations: (Review Machining Report for further detail)

- Cylindrical Latches (Listed and labeled)
- Mortise Lockset (Listed and labeled)
- Deadlock (Listed and labeled)
- Fire Exit Devices (Listed and labeled)
  - Surface mounted vertical rod, RIM and concealed vertical rod exit devices.
  - Surface mounted and mortised overhead door closer (Listed and labeled)
  - Floor closer (Listed and labeled)
- Light Kit (Listed and labeled)
  - Listed Steel Lite Kit – max. 100 sq. in. listed glazing (max dimension of 33”).
- Electrical Raceway
- Mortised or surface mounted automatic or manual flush bolts (Listed and labeled)
- Viewers (Listed and labeled)
- Surface Mounted and mortised automatic door bottom (Listed and labeled)
- Louvers (Listed and labeled)
  - Multiple louvers allowed at a maximum area of 1296 sq. in. (max dimension of 24”).
- Cladding Material
  - Listed and labeled materials for use on fire doors.
- Protection Plates
  - Brass, bronze, steel, Acrovyn, or aluminum may be installed on one or both sides of the door at a maximum size of 48” high x width of door.

Notes: Refer to QAI evaluation report F449-1 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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