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

Product: 45 min Rated ‘Category A’ and ‘Category B’ Positive Pressure Fire Doors

Labels: See FD001 - Fire Door Labeling requirements

Models: 45-MINUTE COMPOSITE 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></td>
<td>Width: 8’0” (2438 mm)</td>
<td>Length: 8’0” (2438 mm)</td>
<td>Raised or Flat</td>
</tr>
<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>
<tr>
<td>Pairs</td>
<td>Width: 8’0” (2438 mm)</td>
<td>Length: 8’0” (2438 mm)</td>
<td>Raised or Flat</td>
</tr>
<tr>
<td>Double Egress</td>
<td>Width: 8’0” (2438 mm)</td>
<td>Length: 8’0” (2438 mm)</td>
<td>Raised or Flat</td>
</tr>
</tbody>
</table>
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 type and concealed vertical rod exit devices
- Surface mounted and mortised door closer (Listed and labeled)
- Light Kit (Listed and labeled)
  - Listed Steel Lite Kit – max. 1296 sq. in. (max dimension of 54")
- Mortise or surface mounted manual flush bolts (Listed and labeled)
- Viewers (Listed and labeled)
- Surface mounted and mortised automatic door bottom (Listed and labeled)
- Louvers (Listed and labeled)
- Protection Plates
  - Brass, bronze, steel, stainless steel, aluminum, PVC, ABS or polycarbonate at maximum dimensions of 48” x 48”.

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.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI. No warrantee is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to info@qai.org. Please include the listing number in the request.

***