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.
NFPA 252 Standard Methods of Fire Tests of Door Assemblies.

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

Labels: See FD001 - Fire Door Labeling requirements

Models: 45-MINUTE MINERAL CORE 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></td>
<td>Maximum</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Width:</td>
<td>Length:</td>
<td></td>
</tr>
<tr>
<td>Single Swing</td>
<td>4’0” (1219 mm)</td>
<td>10’0” (3048 mm)</td>
<td>Flush</td>
</tr>
<tr>
<td>Single Swing w/Transom</td>
<td>4’0” (1219 mm)</td>
<td>9’0” (2743 mm)</td>
<td>Flush</td>
</tr>
<tr>
<td>Pairs</td>
<td>8’0” (2438 mm)</td>
<td>9’0” (2743 mm)</td>
<td>Flush</td>
</tr>
<tr>
<td>Double Egress</td>
<td>8’0” (2438 mm)</td>
<td>8’0” (2438 mm)</td>
<td>Flush</td>
</tr>
</tbody>
</table>

Notes:
Maximum height of transom is 4’0”
Limitations: (Review Machining Report for further detail)

- Cylindrical Latches (Listed and labeled)
- Mortise Latches (Listed and labeled)
- Card Locks (Listed and labeled)
  - Miwa AL4HB or equivalent positive pressure rated card locks
  - Miwa ALV2 Series card lock approved with a maximum mortise cut-out of 1” x 4-3/8” x 6-7/8”
- Deadlock (Listed and labeled)
- Surface mounted and concealed overhead door closer (Listed and labeled)
- Floor door closer (Listed and labeled)
- Surface mounted flushbolts (listed and labeled)
- Fire Exit Devices (Listed and labeled)
  - Surface mounted and concealed vertical rods, RIM type exit devices
- Light Kit (Listed and labeled)
  - Listed Steel Lite Kit – max. 1296 sq. in. (max dimension of 54”)
- Electrical Raceway
  - Maximum 3/8” diameter raceway.
- Viewers (Listed and labeled)
  - Two listed viewers up to 1” diameter each. Located a minimum of 5-1/2” apart or from edge.
- Protection Plates
  - Brass, bronze, steel, aluminum, PVC or decorative laminate protection plates.
  - Maximum 1/8” thickness up to 48” height.

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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