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

Product: 90 min Rated ‘Category A’ and ‘Category B’ Positive Pressure Fire Doors

Labels: See FD001 - Fire Door Labeling requirements

Models: 90-MINUTE MINERAL CORE TEMPERATURE RISE 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></td>
<td>Width:</td>
<td>Length:</td>
<td></td>
</tr>
<tr>
<td>Single Swing</td>
<td>4’0” (1219 mm)</td>
<td>8’0”(2438 mm)</td>
<td>Flush</td>
</tr>
<tr>
<td>Pairs</td>
<td>8’0”(2438 mm)</td>
<td>8’0”(2438 mm)</td>
<td>Flush</td>
</tr>
</tbody>
</table>

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

- Cylindrical Latches (Listed and labeled)
- Mortise Lockset (Listed and labeled)
- Card-Operated Lockset (Listed and labeled)
- Deadlock (Listed and labeled)
- Fire Exit Devices (Listed and labeled)
  - Surface mounted vertical rod, RIM type surface mounted and concealed vertical rod.
- Surface mounted and mortised door closer (Listed and labeled)
- Light Kit (Listed and labeled)
  - Listed Steel Lite Kit – max. 100 sq. in.
- Electrical Raceway
- Viewers (Listed and labeled)
- Surface Mounted and mortised automatic door bottom (Listed and labeled)
- Door Skins
  - 20 gauge, mild steel door skins only.
- Protection Plates
  - Brass, bronze, steel, stainless steel, aluminum, PVC, ABS, or polycarbonate may be installed on one or both sides of the door. Maximum dimensions of 36” 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.

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