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: CAN/ULC-S104
UL 10(b)
NFPA 252

Product: 45 min Rated Neutral Pressure Fire Doors

Labels: See FD001 - Fire Door Labeling requirements

Models: 45-MINUTE MINERAL CORE FLUSH DUTCH 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” (1219 mm) Length: 8’0” (2438 mm)</td>
<td>Flush</td>
<td>Single Point (Mortised or Cylindrical)</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 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. 1296 sq. in. listed glazing (max dimension of 54”).
- 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.

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.

***