FIRE DOOR LISTING PROGRAM

Customer: Ferche Millwork, Inc.
Class: Fire Door Frames
Location: Rice, Minnesota
Website: http://www.ferche.com/

Listing No. F438-1
Project No. F438-1 Edition 1

Effective Date: October 24, 2016
Last Revised Date: October 24, 2016
Expires: N/A

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

Product: 90 min Rated Fire Door Frames

Labels: See FD001 - Fire Door Labeling requirements

Models: 90-MINUTE FIRE DOOR FRAMES:

MAXIMUM FRAME SIZES:

<table>
<thead>
<tr>
<th>Swing Type</th>
<th>Maximum Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width:</td>
</tr>
<tr>
<td>Single Swing</td>
<td>4'0&quot; (1219 mm)</td>
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LIMITATIONS:

- Minimum Frame Leg Width: 4-5/8"
- Maximum Frame Leg Width: Equivalent to wall thickness
- Minimum Frame Leg Thickness: 3/4" (-1/16") [Single Core Layer]
- Minimum Frame Leg Thickness: 3/4" (-1/16") [Single Core Layer]
- 2-1/4" [4 core layers for SOSS® Invisible Hinge]
- Minimum Rabbet for Door: 1-7/8" (-1/16")
- Minimum Stop Height: 5/8"
- Minimum Stop Width: 1-1/4" (-1/16")

Strike Plates: Listed and labelled for rated opening
Hinges: Listed and labelled for rated opening
Door Closer: Listed and labelled for rated opening
- Surface mounted door closers
- Concealed door closers
Notes: Refer to QAI evaluation report F438-1 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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