FIRE DOOR FRAME LISTING PROGRAM

Customer: BASF SE  
Class: Fire Door Frames  
Location: Frankenthal, Germany  
Website: www.basf.com

Listing No. F411-2  
Project No. F411-2 Edition 7

Effective Date: October 12, 2012  
Last Revised Date: May 28, 2018

Standards:  
UL 10B  Fire Tests of Door Assemblies.  
UL 10C  Fire Tests of Door Assemblies.  
NFPA 252  Standard Methods of Fire Tests of Door Assemblies.

Product: 20 min Rated Positive Pressure Fire Door Frames

Markings: See FD001 - Fire Door Labeling requirements

Models: 20-MINUTE FIRE DOOR FRAMES:

<table>
<thead>
<tr>
<th>Swing Type</th>
<th>Maximum Dimensions</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Width:</td>
<td>Height:</td>
<td></td>
</tr>
<tr>
<td>Single Swing</td>
<td>3'6&quot; (1067 mm)</td>
<td>9'0&quot; (2743 mm)</td>
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<tr>
<td>Pairs</td>
<td>7'0&quot; (2134 mm)</td>
<td>9'0&quot; (2743 mm)</td>
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<tr>
<td></td>
<td>8'0&quot; (2438 mm)</td>
<td>8'0&quot; (2438 mm)</td>
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<tr>
<td>Double Egress</td>
<td>Not Permitted</td>
<td></td>
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</table>

LIMITATIONS:

Minimum Frame Leg Width: 4-3/4"
Maximum Frame Leg Width: Equivalent to wall thickness
Minimum Frame Leg Thickness: 5/8" (-1/16")
Minimum Rabbet for Door: 1-3/4" (-1/16")
Minimum Stop Height: 1/2"
Minimum Stop Width: 1-1/4" (-1/16")

Hardwood Facings: Maximum ¼" x 1" Hardwood Facing inlaid into the face of the frame leg.

Electric Raceway: Max. ¼" diameter hole through the frame leg at 40" from the floor and below.
Mortised Door Closer: Concealed closer allowed in the frame header. Maximum 2-1/6" x 3-5/8" x 12" pocket dimensions lined with Interdens Type 15 on all 5 sides.

Installation: Fastened through the frame legs with finishing nails. Fasten through the frame at 2 fastener locations on the hinges with fastener long enough to penetrate at least ¾” into wall framing.

Notes: Refer to QAI evaluation report F411-2 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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