

## 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 5  
 Effective Date: October 12, 2012  
 Last Revised Date: September 30, 2016  
 Expires: N/A

Standards: CAN/ULC-S104 *Standard Method for Fire Tests of Door Assemblies.*  
 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: 90 min Rated Fire Door Frames

Markings: See [FD001 - Fire Door Labeling requirements](#)

Models: **90-MINUTE FIRE DOOR FRAMES:**

### Maximum Frame Sizes

Swing Type:	Maximum Dimensions	
	Width:	Height:
<b>Single Swing</b>	3'6" (1067 mm)	9'0" (2743 mm)
<b>Pairs</b>	7'0" (2134 mm)	9'0" (2743 mm)
<b>Double Egress</b>	Not Permitted	

### LIMITATIONS:

Minimum Frame Leg Width: 4-3/4"  
 Maximum Frame Leg Width: Equivalent to wall thickness  
 Minimum Frame Leg Thickness: 5/8" (-1/16")  
 Maximum Frame Leg Thickness: 1" (-1/16") [with MDF frame backing]  
 1-1/2" (-1/16") [with BASF SW20-1 frame backing]  
 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 1/4" x 1" Hardwood Facing inlaid into the face of the frame leg

Electric Raceway: Max. 1/4" diameter hole through the frame leg at 40" from the floor and below.

Mortised Door Closer: Not Allowed

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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