

FIRE DOOR LISTING PROGRAM

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

Listing No. F411-1
 Project No. F411-1 Edition 7

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

Standards: CAN/ULC S104	<i>Standard Method for Fire Tests of Door Assemblies.</i>
UL 10B	<i>Fire Tests of Doors Assemblies.</i>
UL 10C	<i>Fire Tests of Doors Assemblies.</i>
NFPA 252	<i>Standard Methods of Fire Tests of Door Assemblies.</i>

Product: 90 min Rated Positive Pressure Fire Doors

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

Models: **90-MINUTE LAMINATED CORE PANEL AND FLUSH DOORS:**

Minimum 1-3/4" Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	3'6" (1067 mm)	9'0" (2743 mm)	Flat or Raised	Single point (Mortised or Cylindrical)
	4'0" (1219 mm)	7'0" (2134 mm)		
Pairs	6'0" (1829 mm)	8'0" (2438 mm)	Flat or Raised	3 point (Active: Mortised or Cylindrical) (Inactive: Mortised (Manual or Automatic) Flush Bolts or Surface Mounted Bolts)
	7'0" (2134 mm)	8'0" (2438 mm)	Flat or Raised	4 point (Active: Mortised or Cylindrical) (Inactive: Mortised (Manual or Automatic) Flush Bolts or Surface Mounted Bolts)
	8'0" (2438 mm)	7'0" (2134 mm)		
	7'0" (2134 mm)	9'0" (2743 mm)	Flush only	
Double Egress	Not Permitted			

Minimum 2-1/4" Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	4'0" (1219 mm)	10'0" (3048 mm)	Raised only	2 point (Surface Mounted)
Pairs	8'0" (2438 mm)	10'0" (3048 mm)	Raised only	4 point (Surface Mounted)
Double Egress	8'0" (2438 mm)	10'0" (3048 mm)	Raised only	4 point (Surface Mounted)

*All door assemblies are certified for Shallow Arch door construction

Temperature rise

- @30 min = 250°F 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 Labelled)
- Mortise Lockset (Listed and Labelled)
- Fire Exit Devices
 - Surface mounted vertical rod, RIM and concealed vertical rod exit devices
- Surface Mounted and concealed door closer (Listed and Labelled)
- Mortise manual or automatic flush bolts
- Light Kit (Listed and Labelled)
 - Listed Steel Lite Kit – max. 1080 sq. in. (max. dimension of 36")
 - BASF Proprietary steel channel light kit – max. 600 sq. in.
- Electric Raceway (Can only be installed in the Mid Rail, never through the door core)
- Surface Mounted and concealed door bottom (Listed and Labelled)
 - Max mortise 1-3/4" deep by 1" wide by full width of the door

Notes: *Refer to QAI evaluation report F411-1 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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