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FIRE DOORS LISTING PROGRAM

Customer: Karona Doors Inc. Class: Fire Door Frames Location: Caledonia, Michigan Website: www.karonadoor.com

Listing No. F441-2 Project No. F441-2 Edition 1

Effective Date: March 13, 2017 Last Revised Date: March 13, 2017

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

Standard Method for Fire Tests of Door Assemblies. Fire Tests of Doors Assemblies. Fire Tests of Doors Assemblies. Standard Methods of Fire Tests of Door Assemblies.

- Product: 45 min Rated Fire Door Frames
- Labels: See FD001 Fire Door Labeling requirements

Models: 45-MINUTE FIRE DOOR FRAMES:

MAXIMUM SIZES:

MDF with SW2 edge sealing:

Swing Type:		Maximum Dimensions	
		Width:	Height:
Single Swing	Rectangular	3'6" (1067 mm)	7'9" (2362 mm)
	Arched Top	3'6" (1067 mm)	7'9" (2362 mm)
	Mulled Assembly	7'0" (2134 mm)	7'9" (2362 mm)
Pairs		Not Permitted	
Double Egress		Not Permitted	

Two Layers of SW 20-1 Cores or Single Layer of SW 45-1 Core:

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



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LIMITATIONS: M

Minimum Frame Leg Width: Maximum Frame Leg Width:	4-3/4" 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")			
	1-3/4" (-1/16") [Communicating Door Frames]			
Hardwood Facings: Maximum 1/4" 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: Not Allowed

Installation: Fastened through the frame leas with finishing nails. Fasten through the frame at 2 fastener locations on the hinges with fastener long enough to penetrate at least 3/4" into wall framing.

Notes: Refer to QAI evaluation report F441-2 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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