

## 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	<i>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.</i>
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Product: 20 min Rated Fire Door Frames

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

Models: **20-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)
	8'0" (2438 mm)	8'0" (2438 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:	1-1/2" (-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 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.

*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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