

FIRE DOORS LISTING PROGRAM

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

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

Effective Date: May 9, 2017
 Last Revised Date: May 9, 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 Doors

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

Models: **20-MINUTE STILE AND RAIL WOOD PANEL DOORS:**

Minimum 1-3/4" Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	3'6" (1067 mm)	9'0" (2438 mm)	Flush or Raised	Single Point (Mortised or Cylindrical)
	4'0" (1067 mm)	8'0" (2438 mm)		
Pairs	8'0" (2438 mm) Maximum	8'0" (2438 mm) Maximum	Flush or Raised	3 or 4 point (Active: Mortised or Cylindrical) (Inactive: Mortised (Manual or Automatic) and Surface Mounted Flush Bolts)

Limitations: (Review Machining Report for further detail)

- Surface Mounted Hardware
- Cylindrical Latches (Listed and Labelled)
- Listed Viewers
- Mortise manual or automatic flush bolts
- Mortise Lockset (Listed and Labelled)
 - [Max. mortise pocket 4-7/16" deep x 6-1/16" high x 1" thick]
 - Assa Abloy Hospitality AS – Vingcard Mortise Hardware
 - "VingCard Alu" or "Trio VingAccess Alu", Series 1050, 1060, 1070, 1080, 1090
 - 1000 Series; Models 1001, -02, -04, -07, -12, -14, -15, -57, -85 with 19.05 mm (3/4 in.) latch bolts; may include suffix letters -K, -KVC, -L or -LVC
 - "3000 DaVinci, Euro DaVinci and Presidio" battery operated units
 - "Signature Series, Euro, ANSI and US ANSI" battery operated units
 - "Allure Series, Euro, ANSI and US ANSI" battery operated units
 - "Essence Series, Euro, ANSI (DB) and US ANSI (DA)" battery operated units
- Fire Exit Devices
 - Surface mounted vertical rod, RIM and concealed vertical rod exit devices (Does not require Palusol protection)
- Surface Mounted and concealed door closer (Listed and Labelled)
 - Max mortise 22-1/2" long by 1-3/8" deep by 1-1/4" wide
- Light Kit (Listed and Labelled)
 - Listed Steel Lite Kit – max. 1216 sq. in. (max dimension of 54")
 - BASF Proprietary clip light kit – max. 2656 sq. in. (max. dimension of 83")
- Electric Raceway
- 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 F441-1 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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