

FIRE DOOR LISTING PROGRAM

Customer: CR Doors & Moulding LLC
 Class: Fire Doors
 Location: Springville, UT
 Website: www.crdoors.net

Listing No. F451-1
 Project No. F451-1 Edition 2

Effective Date: January 12, 2018
 Last Revised Date: February 23, 2021

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: 20 min Rated Positive Pressure Fire Doors without Hose Stream

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

Models: **20-MINUTE CATEGORY A FIBERGLASS DOORS:**

Minimum 1-11/16" Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	3'0" (914 mm)	8'0" (2438 mm)	Flat or Raised	Single Point (Mortised or Cylindrical)
Pairs	Not Permitted			

*All door assemblies are certified for Shallow Arch door construction

Single Point Latching – Cylindrical or Mortise latches and deadbolts, or Rim type fire exit hardware for single swing doors.

CATEGORY "A" AND "B" DOORS

Category "A" Doors contain intumescent in the door vertical edges and header. Category "B" doors and doors conforming to CAN/ULC S 104 do not require the door edge intumescent for single swing door applications, intumescent is optional. For doors swinging in pairs, intumescent is required at the meeting edges only.

HOSE STREAM

This specification provides a construction for "without hose stream" applications. The hose stream test is required for CAN/ULC S 104 (Canada) but optional for UL 10B, UL 10C and NFPA 252 (USA)

COMPONENTS LIMITATIONS:: (Review Machining Report for further detail)

Latch Sets (Listed and labeled for use in 20 minute wood doors, including UL 10C)

- Cylindrical Latches
 - Maximum 2-1/8" diameter bore
 - Maximum 2-3/4" backset
 - Minimum 1/2" throw

Deadbolts (Listed and labeled for use in 20 minute rated wood doors, and UL 10C)

- Maximum 2-1/8" diameter bore, (cylindrical)
- Maximum 2-3/4" backset, (cylindrical)
- Located a minimum of 5" center-line to center-line above the latch set
 - Interconnected Deadbolts are allowed
- Mortised Deadbolt – see Mortised Latch Set section above

Hinges (Listed and labeled for use in wood doors, and UL10C)

- Hinges as per NFPA 80, Table 6.4.3.1
- Listed steel butt ball bearing type spring hinges

Fire Exit Devices (Listed and labeled for use in 20 minute rated wood doors and UL 10C)

- Surface Mounted Vertical Rod Fire Exit Device
- Rim Type Fire Exit Devices
- Through-bolts are optional unless required by hardware installation instructions.

Door Closers (Listed and labeled for rated opening)

- Surface Mounted Door Closers are required to be mounted with through-bolts

Surface Mounted Protection Plates

- Permitted, no limitations, fastened with adhesives or screws.

Louvers

- Not Permitted.

Profiling / Grooving:

- 0.137" skins allowed maximum profile of depth 0.031" up to 10% of surface. Not allowed in proximity to draft or smoke seals.

Viewers (Listed and labeled for use in wood doors, and UL 10C)

- Maximum size of 1" diameter, maximum 2 per door.

Flush Bolts

- Not Permitted

Concealed Closer



- Not Permitted

Concealed Vertical Rod Hardware

- Not Permitted

Glass Lights / Vision Panels (Listed and labeled for rated opening)

- Not Permitted

-

Door Bottoms or Seals (Listed for use in 20 minute rated wood doors)

- Surface Mounted Snap-In in dual durometer vinyl with bulb and fins or with all fins.
- Kerf mounted permitted.

Surface Mounted Hardware (Listed and labeled for use in 20 minute rated wood doors)

- Permitted

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.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI. No warranty is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to info@qai.org. Please include the listing number in the request.
