

FIRE DOOR LISTING PROGRAM

Customer: Ohio Custom Door LLC
Class: Fire Doors
Location: Fredericksburg, Ohio
Website: www.ohiodoor.co

Listing No. F473-1
Project No. F473-1 Edition 1

Effective Date: October 18, 2021
Last Revised Date: October 18, 2021

Standards: UL 10B *Fire Tests of Door Assemblies*
 UL 10C *Positive Pressure Fire Tests of Door Assemblies*
 NFPA 252 *Standard Methods of Fire Tests of Door Assemblies*
 CAN/ULC-S104 *Standard Method for Fire Tests of Door Assemblies*

Product: 20 Minute Neutral and Positive Pressure Rated Fire Doors

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

Models: 20-MINUTE LAMINATED STILE AND RAIL MDF PANEL FIRE DOORS
 CATEGORY A AND CATEGORY B WITH HOSE STREAM RATING:

Minimum 1-3/4" Door Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	3'0" (915 mm)	8'0" (2438 mm)	Flat or Raised	Single Point (Mortised or Cylindrical Lockset) (Surface Mounted Fire Exit Devices)
Pairs	NOT PERMITTED			
Double Egress	NOT PERMITTED			

Category B Doors – require listed 20 minute fire rated Category G seal when used in positive pressure applications. Category G seal must be applied at the header and both jambs on either door or frame.

**20-MINUTE LAMINATED STILE AND RAIL MDF PANEL GLAZED FIRE DOORS
 CATEGORY A AND CATEGORY B WITHOUT HOSE STREAM RATING:
 (NOT FOR USE IN APPLICATIONS REQUIRING COMPLIANCE TO CAN/ULC-S104)**

Minimum 1-3/4" Door Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	3'0" (915 mm)	8'0" (2438 mm)	Full Glazed or Split Panel / Glazed	Single Point (Mortised or Cylindrical Lockset) (Surface Mounted Fire Exit Devices)
Pairs	NOT PERMITTED			
Double Egress	NOT PERMITTED			

Category B Doors – require listed 20 minute fire rated Category G seal when used in positive pressure applications. Category G seal must be applied at the header and both jambs on either door or frame.

**Additions / Limitations:
 (Review Machining Specifications Report for details)**

Latch Sets (Listed and labeled for the rated opening)

- Cylindrical Latches:
 - Maximum 2-1/8" diameter bore.
 - Maximum 2-3/4" backset.
 - Minimum 1/2" latch throw.
- Mortised Latch:
 - Minimum stile width 5".
 - Maximum 1" x 6-1/4" x 4-1/2" (W x H x D) cut-out.
 - The back of the mortise pocket requires to be lined with intumescent material.
 - Minimum 1/2" latch throw.

Deadbolts (Listed and labeled for the rated opening)

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

Hinges (Listed and labeled for the rated opening)

- Hinges as per NFPA 80, Table 6.4.3.1.
- Listed steel butt ball bearing type spring hinges.
- Spring Hinges required (min. of 2 per door leaf).
- Continuous Hinges permitted.



Fire Exit Devices (Listed and labeled for the rated opening)

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

Door Closers (Listed and labeled for the rated opening)

- Surface Mounted Door Closers only.
- Mortised Door Closers not permitted.

Door Veneers and Inlays (Optional)

- Plastic Laminate (up to 1/16" thick).
- Wood Veneer (up to 1/16" thick).
- Metal Foil (up to 1/16" thick).
- Paper Finish (up to 1/16" thick).
- Glass Mirror (up to 1/8" thick).

Surface Mounted Protection Plates

- Permitted with no limitations, fastened with adhesives or screws.
- Brass, Bronze, Steel, Aluminum or Polycarbonate, used on 1 or 2 sides of the door.

Plant-Ons

- MDF or solid wood, plant-on moldings may be applied to one or both sides of a door.
- Adhesive and/or mechanical fasteners with a maximum penetration of 3/4".
- Molding may not be applied closer than 3-1/2" to the edge of a lite.

Door Panel Grooves

- Maximum 1/8" width and 1/16" depth V-Grooves are permitted in 7/8" thick panel.
- Groove start located at a maximum of 1/4" away from edge of cross-rail.

Arched Top

- Full radius arch top not permitted.
- Shallow arch top allowed:
 - Sides of the door at the top can be up to 4-1/2" lower than the mid-point of the door.
 - Original non-arch top door hinge location must be maintained. Minimum 1" distance between top hinge and top edge of the door.

Door Bottoms or Seals (Listed and labeled for the rated opening)

- Surface Mounted Snap-In in dual durometer vinyl with bulb and fins or with all fins.
- Mortised with cutout dimensions restricted to 0.625" wide and 1-1/2" deep x full width of the door.

Surface Mounted Hardware (Listed and labeled for the rated opening)

- Permitted.

Edge Sealing:

- Listed 20 minute fire rated Category G seal is required on Category B doors used in positive pressure applications. Category G seal must be applied at the header and both jambs on either door or frame.

Lite Kits and Glass – no hose stream doors only, not for use in applications requiring compliance to CAN/ULC-S104 (Listed and labeled for the rated opening)

- Full Lite and Split Panel / Lite door configurations permitted
- Split Panel / Lite configuration requires a 6-1/2" wide mid-rail
- Lite Kit:
 - Maximum door cutout dimensions 26 in. x 82.5 in. (width x height)
 - Requires closed cell PVC foam glazing tape
- Fire-Rated Glass:
 - Minimum 1/4 in. glass thickness
 - Maximum glass cut dimensions 25 in. x 81.5 in. (width x height)
 - Maximum glass viewing area dimensions 24 in. x 80.5 in. (width x height)

Viewers (Listed and labeled for the rated opening)

- Maximum size of 3/4" diameter
- Multiple viewers located a minimum of 12" on center
- Viewers located a minimum 5-1/2" away from edges of doors
- Viewers shall be installed in 1-3/4" thick mid rail or panel section unless otherwise listed for wood doors

Electric Raceway

- Not Permitted.

Electric Strikes, Magnetic Switches and Electrical Power Transfers (EPT)

- Not Permitted.

Notes: Refer to QAI evaluation report F473-1 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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