

FIRE DOOR FRAME LISTING PROGRAM

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

Listing No. F473-2
Project No. F473-2 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 Door Frames

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

Models: 20-MINUTE NEUTRAL AND POSITIVE PRESSURE RATED CATEGORY C WOOD FIRE DOOR FRAMES

MAXIMUM SIZES:

Soft-Wood Frames

Swing Type:	Maximum Dimensions	
	Width:	Height:
Single Swing	3'6" (1069 mm)	8'0" (2438 mm)
Pairs	5'6" (1676 mm)	8'0" (2438 mm)
Double Egress	Not Permitted	

Hard-Wood Frames

Swing Type:	Maximum Dimensions	
	Width:	Height:
Single Swing	4'0" (1219 mm)	9'0" (2743 mm)
Pairs	8'0" (2438 mm)	9'0" (2743 mm)
Double Egress	Not Permitted	



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

- Minimum frame leg width: 4-9/16" (116 mm)
- Maximum frame leg width: Equivalent to wall thickness
- Minimum frame leg thickness: 3/4" (19 mm)
- Minimum single rabbet width: 2-1/16" (52 mm)
- Minimum double rabbet width: 1-5/8" (41 mm)
- Minimum stop height: 1/2" (13 mm)
- Minimum stop width – single rabbet: 2-7/16" (62 mm)
- Minimum stop width – double rabbet: 1-1/2" (38 mm)
- Maximum kerf size – single rabbet only: 1/8" x 3/8" (3 mm x 9.5 mm)

Frame and Stops:

- Solid wood, no finger joints.
- Single rabbet frame, stop is integral to the frame profile.
- Double rabbet frame, stop is applied using 4d (1-1/2") nails, spaced at 12" on center.

Edge Sealing:

- Weather-stripping kerf is permitted on single rabbet frames only.
- Kerfed frames: Listed 20 minute fire rated equivalent kerf gasket.
- Non-kerfed frames: surface-applied Listed 20 minute fire rated gasket.
- Weather-stripping seal must be Listed for use with wood frames and type of door used.
- Listed 20 minute fire rated Category G seal is required when used with Category B doors in positive pressure applications. Category G seal must be applied at the header and both jambs on either door or frame.

Mulled Assemblies:

- Not permitted.

Casing / Moulding:

- Minimum thickness: 3/8" (10 mm)
- Minimum width: 1-3/8" (35 mm)

Hinge and Strike Plates:

- All hinges and applicable hardware must be fire rated for use in openings at or above the fire rating of the frame system being installed.
- Preparation of all hinges shall be made in accordance with NFPA 80, the hinge manufacturer's installation instructions and templates.
- All strike plates and latch bolt receiver areas shall be prepared in accordance with the NFPA 80 and manufacturer's installation instructions and templates.

Electric Raceways:

- Not permitted.

Door Closers (Listed and labeled for the rated opening)

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

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.

Installation:

- Frame legs are fastened to the header using a minimum of two #8 x 1-1/2" screws per corner.
- For use in listed walls of steel or wood studs and drywall or masonry construction.
- Shim space – maximum 1/2" at the jambs and header. Shim space between 1/4" and 1/2" must be filled with fiberglass insulation. Shim space smaller than 1/4" does not require fiberglass insulation. Wall thickness – minimum 3-1/2".
- Silicone applied between the jambs / header and rough opening on both sides of the assembly.
- Jambs and header are fastened into rough opening using 10d (3") nails in pairs, spaced at 24" on center.
- 3" long screws used in strike plate application and one 3" screw per hinge plate to jamb.
- Follow NFPA 80 installation guidelines as well as details outlined in the Manufacturing / Machining Specifications report.

Notes: Refer to QAI evaluation report F473-2 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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