

FIRE DOOR FRAME LISTING PROGRAM

Customer: Wolman Wood and Fire Protection GmbH
 Class: Fire Door Frames
 Location: Frankenthal, Germany
 Website: <https://www.wolman.biz>

Listing No. F411-2
 Project No. F411-2 Edition 9

Effective Date: October 12, 2012
 Last Revised Date: February 23, 2021

Standards: CAN/ULC S104	<i>Standard Method for Fire Tests of Door Assemblies.</i>
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 Door and Sidelite / Transom Frames

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

Models: **CATEGORY C 20-MINUTE FIRE DOOR FRAMES**

Maximum Sizes Fire Door Frames:

Swing Type:	Maximum Dimensions	
	Width:	Height:
Single Swing	3'6" (1067 mm)	9'0" (2743 mm)
Pairs	7'0" (2134 mm)	9'0" (2743 mm)
	8'0" (2438 mm)	8'0" (2438 mm)
Double Egress	Not Permitted	

Limitations:

Frame - Single or Double Rabbet Option:

Minimum frame width:	4-1/2"
Maximum frame width:	Equivalent to wall thickness
Minimum frame thickness:	5/8" (-1/16")
Minimum rabbet for door:	1-3/4"
Minimum stop height:	1/2"
Minimum stop width:	1-3/16"

Frame - Option with a Kerf:

Minimum frame width:	4-1/2"
Maximum frame width:	Equivalent to wall thickness

Minimum frame thickness:	3/4"
Minimum rabbet for door:	1-3/4"
Minimum stop height:	1/2"
Minimum stop width:	1-1/2"
Maximum door to stop gap:	7/16" (allowance for weatherstrip)
Maximum frame kerf thickness:	1/8"

Note: Kerfed frame is limited to use with Category A doors only (intumescent in door edges).

Maximum Sizes Fire Rated Sidelites and Transoms:

Window Type:	Maximum Dimensions	
	Width:	Height:
Single Glazed	2'0" (610 mm)	4'0" (1219 mm)
Combination	Not Permitted	

Limitations:

Minimum Frame Width:	4-1/2"
Maximum Frame Width:	Equivalent to wall thickness
Minimum Frame Thickness:	5/8" [Wolman SW 45-1 Material]
Maximum Frame Thickness:	1 1/2" [Wolman SW 45-1 Material + MDF]
Stop Height:	1/2"
Stop Width:	3/4"

Glass Lights (Listed and labeled for rated opening):

- Glazing material shall be listed and labeled for rated opening and light kit type.
- Glazing installed in accordance with the installation instructions for Wolman frames.
- Glazing details:
 - Maximum window opening 24" x 48" (Width x Height) with Wolman vision kit using Listed 3/16" ceramic glazing.
 - Wolman Glazing Clips used at 8" maximum spacing, fastened using 3/4" staples or flat head nails.
 - Silicone sealant must be used around perimeter of glass (between the glass and frame).

Arched Top Frames:

- Not permitted.

Mulled Assemblies:

- Not permitted.

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 for hinges and hardware shall be made in accordance with NFPA 80, the hinge manufacturer's installation instructions and templates.

Electric Raceways:

A 1/4" diameter hole is permitted anywhere below 40" above the floor on the hinge or latch frame leg. Wire can then be routed through the hole for electronically controlled hardware. The hole may be left open or sealed with silicone caulking.

Mortised Door Closer:

Concealed closer allowed in the frame header. Maximum 2-1/6" x 3-5/8" x 12" pocket dimensions lined with Interdens Type 15 on all 5 sides.

Minimum 3/8" frame header thickness above the concealed closer pocket [See Figure 8].

Mortised Electric Strike:

Mortise electric strike allowed, Maximum mortise depth 1 1/2", maximum mortise height 3 1/2"

Concealed Hinges

Concealed SOSS and TECTUS hinges are permitted. Frame section shall be built up to encase hinge body.

Installation Instructions

Shims need to be installed. Silicone caulking applied between the jamb and rough opening on both sides of the assembly. Each hinge needs to be fastened through the shim into the frame with at least #12 x 2-1/2" screws. The frame can then be fastened at all non-hinge shim locations with 2" finishing nails. Installation instructions shall be shipped with frame or fire window shipment.

Notes: *Refer to QAI evaluation report F411-2 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.



LABORATORIES

CERTIFICATION TESTING INSPECTION

VANCOUVER, BC: 877.461.8378 ph. | 604.527.8368 fx.
LOS ANGELES, CA: 909.483.0250 ph. | 909.483.0336 fx.
WASHINGTON, DC: 540.636.9445 ph. | 540.636.9414 fx.
TULSA, OK: 918.437.8333 ph. | 918.437.8487 fx.
TORONTO, ON: 416.550.9280
WEBSITE: WWW.QAI.ORG

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.
