

## FIRE DOOR LISTING PROGRAM

Customer: Visser Manufacturing Ltd.  
 Class: Fire Doors  
 Location: Ottawa, ON  
 Website: vissermfg.ca

Listing No. F449-1  
 Project No. F449-1 Edition 1

Effective Date: January 1, 2018  
 Last Revised Date: January 1, 2018

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: 90 min Rated Positive Pressure Fire Doors

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

Models: **90-MINUTE LAMINATED CORE PANEL AND FLUSH 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)	Flat or Raised	<b>Single Point</b> (Mortised or Cylindrical)
	4'0" (1067 mm)	7'0" (2134 mm)		
Pairs	6'0" (2134 mm)	8'0" (2438 mm)	Flat or Raised	<b>3 point</b> (Active: Mortised or Cylindrical) (Inactive: Surface Mounted Flush Bolts)
	7'0" (2134 mm)	8'0" (2438 mm)	Flat or Raised	<b>4 point</b> (Active: Mortised or Cylindrical) (Inactive: Surface Mounted Flush Bolts)
	8'0" (2438 mm)	7'0" (2134 mm)		
	7'0" (2134 mm)	9'0" (2438 mm)	Flush	

### Minimum 2-1/4" Thickness

Swing Type:	Maximum Dimensions		Panel Type:	Latching:
	Width:	Length:		
Single Swing	4'0" (1067 mm)	10'0" (3048 mm)	Flush	<b>2 point</b> (Concealed or Surface Mounted)
Double Egress	8'0" (2438 mm)	10'0" (3048 mm)	Flush	<b>4 point</b> (Concealed or Surface Mounted)

\*All door assemblies are certified for Shallow Arch door construction



## Temperature rise

- @30 min = 250°F MAX where light do not exceed 100 in<sup>2</sup>
- @60 min = 450°F MAX where light do not exceed 100 in<sup>2</sup>

## Limitations: (Review Machining Report for further detail)

- Cylindrical Latches (Listed and Labelled)
- Mortise Lockset (Listed and Labelled)
- Fire Exit Devices
  - Surface mounted vertical rod, RIM and concealed vertical rod exit devices
- Surface Mounted and concealed door closer (Listed and Labelled)
- Mortise manual or automatic flush bolts
- Light Kit (Listed and Labelled)
  - Listed Steel Lite Kit – max. 1080 sq. in. (max. dimension of 36")
  - BASF Proprietary steel channel light kit – max. 600 sq. in.
- Electric Raceway (Can only be installed in the Mid Rail, never through the door core)
- 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 F449-1 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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