



LISTING INFORMATION OF
Aluflam North America - Doors
SPEC ID: 74615

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LISTING INFORMATION

PRODUCT COVERED

Aluflam AF85 and AF93 Series Door and Frame Assemblies

PRODUCT DESCRIPTION

Aluflam AF85 and AF93 Series Door and Frame Assemblies fall under the Category D "Door/Frame Assemblies" classification. These assemblies are designed for use as single-leaf or double-leaf swinging doors in locations where 20-, 45-, 60- or 90-minute fire protection with or without air-leakage classification is required. These assemblies are also designed for use as single-leaf or double-leaf swinging doors in locations where air-leakage classification without fire protection is required. Each assembly comprises of doors and door frames with or without the transom and sidelights. Aluflam Doors and Door Frames are suitable for installation in various fire-resistant rated walls, including those under active listings by Aluflam, as well as steel / wood stud gypsum wallboard or masonry walls. The walls into which these assemblies are installed must be certified as fire rated construction. Aluflam Doors and Door Frames are also suitable for installation adjacent to various fire-protection rated assemblies, including those under active listings by Aluflam.

All glazing shall be marked as certified for the fire protection rating required.

HARDWARE

All hardware used with Aluflam Doors must be tested or listed as fire-rated for, at minimum, the fire duration of the doors. Hardware includes items such as:

- Tested/Listed mortise locksets (Minimum 1/2 in. throw, e.g. Tested Mortise lockset from Accurate) with lever handles
- Listed fire exit hardware with surface mounted vertical rods (3/4 in. throw, less bottom rod with fire-bolt allowed for 20-/45-/60-Minute)
- Listed fire rim-mounted exit hardware
- Tested/listed surface mounted hinges (e.g. Dr. Hahn pivots and ABH continuous hinges)
- Tested/listed surface mounted closers
- Tested/listed flush-bolts for inactive leaf of active/fixed door pairs
- Listed electric strikes
- Listed electric hinge side power transfers

LIMITATIONS

The overall 20-, 45-, or 60-minute frame size shall not exceed 76-7/8 in. (1953 mm) in width or 98-7/16 in. (2500 mm) in height.

The overall 90-minute frame size shall not exceed 88-7/8 in. (2258 mm) in width or 98-7/16 in. (2500 mm) in height.

The overall 60-minute frame size with Contraflam 60-1 shall not exceed 90-3/8 in. (2296 mm) in width or 110-7/16 in. (2805 mm) in height.

The overall 90-minute frame size with Contraflam 90-1 shall not exceed 90-3/8 in. (2296 mm) in width or 98-7/16 in. (2500 mm) in height.

FIRE RATINGS

The Aluflam single and double leaf door and frame assemblies have been qualified for the following ratings

according to UL 10C - Positive Pressure Fire Tests of Door Assemblies, UL 10B – Standard for Fire Tests of Door Assemblies, NFPA 252 and CAN/ULC-S104 – Standard Method for Fire Tests of Door Assemblies:

Ratings	Maximum Single Door Leaf Size (w x h)	Maximum Single Door Exposed Glass Size (w x h)	Maximum Door Pair Size (w x h)	Maximum Door Pair Exposed Glass Size (w x h)
20, 45, or 60 minutes	36 in. x 96 in. (914 mm x 2438 mm) Or 42 in. x 90 in. (1067 mm x 2286 mm)	30-5/16 in. x 89-5/16 in. (770 mm x 2268 mm) Or 36-5/16 in. x 83-5/16 in. (923 mm x 2116 mm)	72 in. x 96 in. (1828 mm x 2438 mm)	30 in. x 89-5/16 in. (762 mm x 2268 mm)
60 minutes With Contraflam 60-1	42 in. x 108 in. (1067 mm x 2743 mm)	36-5/16 in. x 101-5/16 in. (923 mm x 2573mm)	85-1/2 in. x 108 in. (2172 mm x 2743 mm)	36-5/16 in. x 101-5/16 in. (923 mm x 2573mm)
90 minutes	42 in. x 96 in. (1067 mm x 2438 mm)	35-15/16 in. x 88-7/8 in. (913 mm x 2258 mm)	84 in. x 96 in. (2134 mm x 2438 mm)	35-3/16 in. x 88-7/8 in. (894 mm x 2258 mm)
90 minutes With Contraflam 90-1	42 in. x 96 in. (1067 mm x 2438 mm)	35-15/16 in. x 88-7/8 in. (913 mm x 2258 mm)	85-1/2 in. x 96 in. (2172 mm x 2438 mm)	35-15/16 in. x 88-7/8 in. (913 mm x 2258 mm)

- Sizes for 20-, 45-, or 60-minutes when using Pyroswiss US, Contraflam 45 or Contraflam 60 or Contraflam 60-1 panes manufactured by Vetrotech Saint-Gobain International AG. Rating is reduced to 20 minutes without hose stream when using Pyroswiss glazing panes and listed glazing pane sizes for Pyroswiss must be followed.
- Sizes for 90-minutes when using Contraflam 90 or Contraflam 90-1 panes manufactured by Vetrotech Saint-Gobain International AG.

The fully glazed Aluflam Door Assemblies for 45-, 60-, and 90-minute ratings qualify for temperature rise restriction rating (T) which is defined as a maximum unexposed surface temperature increases of 250 °F (120 °C) when measured at 30 minutes during the fire test.

Notes on Glazing:

1. All glazing units may contain fully, or partially enameled heat-strengthened or fully tempered glass produced by applying and baking of ceramic paints of any color on one or both exterior faces.
2. All glazing units may contain patterned glass on one or both exterior faces. Patterned glass shall be 1mm thicker than the standard outer pane of the Contraflam unit.
3. All glazing units may be constructed into an Insulated Glazing Unit (IGU) configuration, with tempered or laminated glazing panes, with a Low-E outboard lite as the exterior surface separated from the main panel with a spacer.
4. All glazing units, except Contraflam 60-1 and Contraflam 90-1, may contain laminated glass panes instead of the tempered outer panes. Minimum 8mm laminated panes made from 44.2 glass make-up.
5. Individual glass panes of the Contraflam can be thicker.

AIR LEAKAGE RATINGS

Aluflam AF85 and AF93 Series Door and Frame Assemblies are eligible for S rating ($\leq 3.0 \text{ cfm/ft}^2$ at up to 0.10 in. of w.c) according to UL 1784 with use of the Aluflam system gaskets (SLD01) between door and frame members and following Category H gaskets:

- Bottom of the door(s) - Planet MF
- Meeting edge of double doors - Pemko 369APK

To match tested conditions, pair assemblies must be installed with a 24-lb closing force and single assemblies must be installed with a 40-lb closing force. The AHJ must confirm that assembly closing forces of this magnitude are acceptable.

- Sizes:
- Single doors - 36 to 42 in. in width by 96 in. in height
 - Double doors- 72 to 84 in. in width by 96 in. in height

Note: Door, frame and hardware must be shipped as package from factory.

Attribute	Value
Criteria	UL 1784 (2015)
Criteria	CAN / ULC S104 (2015) (R2020)
Criteria	UL 10(b) (2008) (R2020)
Criteria	UL 10(c) (2016) Ed. 3 (R:27 May 2021)
Criteria	NFPA 252 (2022)
CSI Code	08 10 00 Doors and Frames
Listing Section	CATEGORY D - DOOR/FRAME ASSEMBLIES
Spec ID	74615
Temperature Rise	@ 30 Min Does Not Exceed 250° F