

FIRE DOOR LISTING PROGRAM

Customer: Syntegra, LLC
 Class: Hollow Metal Fire Doors
 Location: San Dimas, CA
 Website: www.syntegrausa.com
 Listing No. F420-2
 Project No. F420-2 Edition 2
 Effective Date: November 10, 2015
 Last Revised: July 25, 2016

Standards: CAN/ULC-S104 *Standard Method for Fire Tests of Door Assemblies.*
 UL 10(b) *Fire Tests of Doors Assemblies.*
 UL 10(c) *Fire Tests of Doors Assemblies.*
 NFPA 252 *Standard Methods of Fire Tests of Door Assemblies.*

Product: 180 minute Rated Temperature Rise Hollow Metal Fire Doors

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



Models / Ratings: **180 MINUTE* TEMPERATURE RISE HOLLOW METAL FIRE DOORS:**
 * Note: Refer to limitations section for limitations on glazing for each rating

Hollow Metal Type (14, 16, 18, 20 gauge) swinging flush fire door

MAXIMUM DOOR SIZES:

Minimum 1-3/4" Thickness

Swing Type:	Maximum Dimensions			
	Up to a 90 minute Rating		Up to a 180 minute Rating	
	Width:	Length:	Width:	Length:
Single Swing	4'3" (1295 mm)	9'0" (2743 mm)	4'0" (1219 mm)	8'0" (2438 mm)
Pairs	8'6" (2591 mm) ^a	9'0" (2743 mm)	8'0" (2438 mm) ^b	8'0" (2438 mm)
Double Egress	8'6" (2591 mm) ^a	9'0" (2743 mm)	8'0" (2438 mm) ^b	8'0" (2438 mm)

Note a: 4'3" width per door leaf
 Note b: 4'0" width per door leaf

For use in listed 3-sided 16 gauge welded steel frames meeting ANSI-A155.1/UL 63 or as per manufacturer's listing

Temperature Rise:

Unexposed temperature does not rise above 250°F at 30 minutes, where the door lites do not exceed 100 in²

Limitations: (Review Machining Report for further detail)

- Cylindrical Latch
- Mortised Latch
 - Syntegra LLC Hardware
 - LX Series Latch Hardware
 - PX Series Integrated Hardware
 - XT Series Integrated Exit Hardware
- Surface Mounted and Mortised Fire Exit Devices
- Hinges as per NFPA 80
 - Continuous Hinges can be used
- Viewers (Maximum size of 1" diameter)
- Surface Mounted and Concealed Door Closer
- Surface Mounted and Concealed Door Bottoms
- Louvers must be listed and labeled to a maximum 24" x 24" installed below the latch
- Glass Lights
 - Wired Glass
 - ¼" listed wired glass up to a maximum area of 100 in²
 - Permitted in doors up to a 90 minute rating
 - Pyrobel60 (refer to listing)
 - Up to a maximum area of 3855 in²
 - Maximum length of 87-5/8"
 - Permitted in doors up to a 60 minute rating
 - Pyrobel90 (refer to listing)
 - Up to a maximum area of 1243 in²
 - Maximum length of 35-1/4 in
 - Permitted in doors up to a 90 minute rating
- Cladding
 - HPL
 - Wood veneer
 - Stainless Steel
 - Bronze
- Protection plates
 - Maximum 16 gauge steel armored plated may be added at a maximum size of 36" wide by 48" high

Notes: *Refer to QAI evaluation report F420-2 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).



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Product is to be installed in accordance with the manufacturer's published installation instructions by qualified installing personnel.

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