

**FIRE DOOR LISTING PROGRAM**

Customer: Syntegra, LLC  
 Class: Hollow Metal Fire Doors  
 Location: Rancho Cucamonga, CA  
 Website: www.syntegrausa.com  
 Listing No. F420-2  
 Project No. F420-2 Edition 6  
 Effective Date: November 10, 2015  
 Last Revised: October 6, 2023

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) <sup>a</sup>	9'0" (2743 mm)	8'0" (2438 mm) <sup>b</sup>	8'0" (2438 mm)
Double Egress	8'6" (2591 mm) <sup>a</sup>	9'0" (2743 mm)	8'0" (2438 mm) <sup>b</sup>	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 in<sup>2</sup>

### 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
- Flush Bolts 2 1/2" in Length x 1 1/8" in width
- 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
    - 1/4" listed wired glass up to a maximum area of 100 in<sup>2</sup>
    - Permitted in doors up to a 90 minute rating
  - Pyrobel60 (refer to listing)
    - Up to a maximum area of 3855 in<sup>2</sup>
    - 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 in<sup>2</sup>
    - 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: Metal-type kick plates are permitted.
- Other Hardware
  - appropriately rated hardware that has been tested and approved for hollow metal doors.

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](#)*



# LABORATORIES

CERTIFICATION TESTING INSPECTION

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TORONTO, ON: 416.550.9280  
SEATTLE, WA: 425.512.8419  
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*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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