

**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 5  
 Effective Date: November 10, 2015  
 Last Revised: August 20, 2020

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
  - Maximum 16 gauge steel armored plated may be added at a maximum size of 36" wide by 48" high
- 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

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  
SEATTLE, WA: 425.512.8419  
WEBSITE: WWW.QAI.ORG

*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.*

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](http://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](mailto:info@qai.org). Please include the listing number in the request.

\*\*\*