

Welcome to the Titan Metal Products Guide Specification System prepared as an aid to specifiers in preparing written construction documents. For specification assistance with specific product applications, please contact Titan Metal Products. To download an electronic copy, please visit www.titanmetalproducts.com.

SPECIFICATION
SECTION 08 11 03: HOLLOW METAL DOORS AND FRAMES
Titan Smoke Rated Doors and Frames

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Smoke rated doors and frames
 - 1. Titan Smoke Rated Doors and Frames for interior and exterior applications.
- B. Related Sections:
 - 1. Section 01 33 23: Shop Drawings, Product Data and Samples
 - 2. Section 08 80 00: Glazing
 - 3. Section 08 71 00: Door Hardware

1.02 REFERENCES

- A. National Fire Protection Association (NFPA):
 - 1. NFPA 80: Fire Doors and Windows.
 - 2. NFPA 105: Standard for Smoke Door Assemblies and Other Opening Protectives.
- B. Underwriters Laboratories, Inc. (UL):
 - 1. UL 1784: Standard for Safety of Air Leakage Tests of Door Assemblies and Other Opening Protectives.
- C. Hollow Metal Manufacturers Association
 - 1. HMMA 860: Guide Specifications for Hollow Metal Doors and Frames.
 - 2. HMMA 861: Guide Specifications for Commercial Hollow Metal Doors and Frames.
- D. Consumer Product Safety Commission (CPSC):
 - 1. CPSC 16 CFR 1201: Safety Standard for Architectural Glazing Materials.
- E. American National Standards Institute (ANSI):
 - 1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.

- F. Glass Association of North America (GANA)
 - 1. GANA – Glazing Manual.
 - 2. FGMA – Sealant Manual.
- G. [American Recovery and Reinvestment Act
 - 1. Section 1605, Title XVI Buy American Provision]
- H. [Insert building code used by Authority Having Jurisdiction]

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:
 - 1. Door Certifications: S labeled doors meeting UL 1784 and complies with NFPA 105.
 - 2. Glazing: Must meet CPSC Cat. I or II impact safety or ANSI Z97.1.
 - 3. Gaskets: Category H gaskets are required. For pair doors, smoke approved astragals are required.

1.04 SUBMITTALS

- A. Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedure Section.
 - 1. Shop Drawings: Submit shop drawings showing layout, profiles and product components.
 - 2. Samples: Submit samples for finishes, colors and textures.
 - 3. Technical Information: Submit latest edition of manufacturer's product data.

1.05 DELIVERY, STORAGE AND HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C. Delivery: Deliver materials to specified destinations in manufacturer's or distributor's packaging undamaged, complete with installation instructions.
- D. Storage and Protection: Store off ground, under cover, protected from weather and construction activities and at temperature conditions recommended by manufacturer.

1.06 FABRICATION DIMENSIONS

- A. Field Measurements: Verify actual measurements for openings by field measurements before fabrication. Show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.07 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document. Manufacturer's warranty is not intended to limit other rights that the Owner may have under the Contract Documents.
 - 1. Warranty Period: 5-year limited warranty from date of shipping.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer: Titan Smoke Rated Doors and Frames as manufactured and distributed by Titan Metal Products.
 - 1. Contact: 1891 Wardrobe Avenue, Merced, CA 95341; Telephone 866.848.2667; email info@titanmetalproducts.com; Web site www.titanmetalproducts.com
- B. Substitutions: No substitutions allowed.

2.02 MATERIALS

- A. Smoke Rated Doors and Frames.
- B. Properties:
 - 1. Constructed in accordance with the individual manufacturer's listings or in accordance with HMMA 860 or HMMA 861.
 - 2. Category H gaskets are required. For pair doors, smoke approved astragals are required.
 - 3. Doors and door frames are made in 16-gauge A-60 steel.
 - 4. Standard door profile includes 6 in. door stile, 6 in. door top rail and 2 in. door frame. Narrow door profile includes 3-3/4 in. door stile, 3-3/4 in door top rail and 1-1/8 in. door frame.
 - 5. 10 in. ADA compliant bottom rail (can be modified with AHJ approval).
 - 6. Door thickness 1-3/4 in. to 3 in. depending on glazing selection.

2.03 MATERIALS – GLASS

- A. Assemblies shall be glazed with safety rated glazing meeting CPSC 16 CFR 1201 or ANSI Z97.1 safety glazing requirements.

2.04 FABRICATION

- A. Assemblies shall be furnished [knocked down for field assembly and will be glazed in the field] [assembled (should configurations and job site conditions allow)][unitized (should configurations and job site conditions allow)].
- B. Door assemblies shall be factory prepared for field mounting of hardware.
- C. Fabrication Dimensions: Fabricate to approved dimensions. The general contractor shall guarantee dimensions within required tolerance. Obtain approved shop drawings prior to fabrication.

2.05 FINISHES

- A. Available with high performance Corafion fluoropolymer finishes by PPG® or other custom finishes including stainless steel or aluminum clad.

2.06 DOOR HARDWARE FOR SINGLE AND PAIR DOORS

- A. Hardware shall be supplied with the door. Hardware selection shall be from door manufacturer’s standard recommended hardware groups as specified below.
- B. Provide high traffic areas of areas requiring a door motion force of greater than 15 lbs. with power assisted hardware for use with manufacturer’s frame system.
- C. Standard operating hardware for standard profile single and pair doors. Please call manufacturer for narrow profile door hardware and custom hardware options (including but not limited to concealed rods, concealed closers, electric strike, etc.)

Quantity	Item	Description	Manufacturer	Finish
4	Hinges	Ball Bearing Heavy Duty Butt Hinges	PBB4B81	US26D
1	Panic Device	Heavy Duty Touch Bar Panic with Surface vertical Rods	PDQ 6200V-F-626 6-EW-08-PHL	
1	Closing Device	Heavy-duty Surface Applied Closer	LCN 4040XP	Aluminum
1	Auto Door Bottoms	420APKL	Pemko	

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data including product technical bulletins and installation instructions.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, have been previously installed under other sections, and are acceptable for product installation in accordance with manufacturer's instructions. Openings shall be plumb, square and within allowable tolerances. The Architect/Engineer shall be notified of any conditions that jeopardize the integrity of the proposed fire wall/door framing system. Do not proceed until such conditions are corrected.

3.03 INSTALLATION

- A. Installation shall be by a licensed contractor and in strict accordance with the approved shop drawings.

3.04 CLEANING AND PROTECTION

1. Protect glass from contact with contaminating substances resulting from construction operations. Remove such substances by method approved by manufacturer.
2. Wash glass on both faces not more than four days prior to date schedule for inspections intended to establish date of Substantial Completion. Wash glass by method recommended by glass manufacturer.
3. Remove temporary coverings and protection of adjacent work areas.
4. Remove construction debris from project site and legally dispose of debris.

END OF SECTION

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