

SECTION 08 16 00
COMPOSITE DOORS

Part 1 GENERAL

1.1 Summary

- A. A. Section Includes: Doors with metal composite skins.
- B. Related Sections:
 - 1. 1. 03 30 00 – Cast-in-place concrete.
 - 2. 04 20 00 – Unit masonry.
 - 3. 06 20 00 – Finish carpentry.
 - 4. 07 90 00 – Joint protection.
 - 5. 08 06 10 – Door schedule.
 - 6. 08 06 71 – Door hardware schedule.
 - 7. 08 13 19 – Stainless steel doors.
 - 8. 08 14 23 – Clad wood doors.
 - 9. 08 34 00 – Special function doors.
 - 10. 08 71 00 – Door hardware.
 - 11. 08 80 00 – Glazing.
 - 12. 09 20 00 – Plaster and gypsum board.

1.2 References

- A. ANSI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing.
- B. ASTM A 167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- C. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
- D. AWS D9.1 - Sheet Metal Welding Code.
- E. NAAMM HMMA 860 - Guide Specifications for Hollow Metal Doors and Frames.
- F. NAAMM Metal Finishes Manual.
- G. SDI 100 – Recommended Specifications Standard Steel Doors and Frames.

1.3 Submittals

- A. Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- B. Submit manufacturer's shop drawings, installation drawings, installation instructions and maintenance instructions.
- C. Submit environmental impact data for all materials.
- D. Submit samples no less than 4" x 4" for all specified material finishes.

E. Manufacturer information:

1. Provide overview literature describing manufacturer's overall scope of products and manufacturing capabilities.
2. Provide URL for manufacturer's website; website must provide access to technical data, images and general product information.

1.4 Quality Assurance

A. Manufacturer Qualifications

1. Minimum 10 years experience in the manufacture of architectural surface materials.
2. Minimum 10 years experience in the fabrication of doors.
3. Provide reference list of at least 10 public space projects currently using doors fabricated by the manufacturer.

B. Installer Qualifications

1. Minimum three years experience in the installation of doors.

1.5 Delivery, Storage and Handling

- A. Deliver materials to installation site in manufacturer's original packaging. Handle products in accordance with manufacturer's instructions. Store in dry, secure location, protected against direct sunlight and excessive heat.

A. Provide manufacturer's standard warranty.

1. Warranty terms: one year against defects in materials and workmanship.

Part 2 PRODUCT

2.1 Manufacturer

- A. Provide Bonded Metal Doors by Forms+Surfaces,
Forms+Surfaces
30 Pine Street
Pittsburgh, PA 15223
phone: 800-451-0410

fax: 412-781-7840

email: sales@forms-surfaces.com

website: www.forms-surfaces.com

2.2 Door Type

A. General

1. Provide metal composite door faces with decorative relief.

B. Decorative Face Material

1. Bonded Metal Doors

- a. Material: Forms+Surfaces **Bonded Aluminum, Bonded Bronze, Bonded Nickel Silver (choose one)**

- b. Pattern: Austin, Champagne, Chardonnay, Charleston, Corona, Dash, Delta, Eclipse, Equinox, Glint, Grass, Herringbone, Kalahari, Loft, Mara, Rain, Sahara, Solstice, Talus, Terrane Tilt, Trevia, Undercurrent, Vancouver, Waterfall (choose one)
- c. Patina: Natural or Dark (choose one)

2.3 Door Cores

A. Non-Rated

1. Provide wood core consisting of particleboard center section with a solid wood perimeter.

4. Edge Element

- A. Material: Clear Anodized Aluminum, Black Anodized Aluminum, Oil-rubbed Bronze, Oiled Walnut, Ebonized Walnut (choose one)

2.5 Hardware Preparation and Supplied Hardware

A. Hardware "Prep Only"

1. Per Contract Documents and approved drawings, provide doors with "prep only" for required hardware as specified. Hardware to be supplied by others.

B. Hardware "Prep-and-Supply"

1. Per Contract Documents and approved drawings, provide doors with "prep-and-supply" hardware package as specified.

Part 3 EXECUTION

1. Examination

- A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

2. Installation

- A. Install doors in accordance with manufacturer's instructions, referenced standards and approved drawings.
- B. Ensure that doors are installed plumb and true, free of warp or twist, within tolerances specified in referenced standards and approved drawings.

3. Adjust and Clean

- A. Test and verify correct operation of doors and related hardware. Adjust as needed.
- B. Clean doors in accordance with manufacturer's instructions.