

# DAWSON DOORS

## SECTION 08430

### CUSTOM SERIES BRONZE DOORS AND ENTRANCES

#### PART I GENERAL

##### 1.01 SUMMARY:

###### A. Description

1. Work includes interior and exterior entrance doors and frames, related sidelites and transoms where applicable, thresholds, and finished hardware as shown on drawings or as specified.
2. Related work not included in this section:
  - a. Glass and glazing.
  - b. Lock cylinders
  - c. Caulking between frames and masonry
  - d. Structural members

##### 1.02 SUBMITTALS:

- A. Shop drawings: Indicate in elevation with sections and details at full scale. Include glass and metal thicknesses, joining details, field connections, anchorage, concealed and exposed fastening methods, door and framing reinforcement, and metal finishes. Indicate compliance with specified design criteria.
- B. Visual samples: Submit two (minimum 4" x 6") samples indicating color and texture to be expected in finished work.
- C. Maintenance data: Give instructions for general maintenance and repair of surfaces and finishes.

##### 1.03 QUALITY ASSURANCE:

###### A. Manufacturer:

1. Manufacturer shall have been regularly engaged in manufacturing bronze doors and frames for a period of ten years.
2. Door and frame shall be fabricated by a single manufacturer.
3. The manufacturer must have a quality system registration to the ISO9002 standard.

###### B. Applicable standards of the following as referenced herein:

1. American Architectural Manufacturers Association (AAMA)

2. American Iron and Steel Institute (AISI)
3. American Society for Testing and Materials (ASTM)
4. American Welding Society (AWS)
5. Steel Structures Painting Council (SSPC)
6. National Association of Architectural Metals Manufacturers (NAAMM)
7. Americans with Disabilities Act (ADA)

###### C. Allowable Tolerances:

1. Maximum variation from plumb, level or designated position: 1/8" in 12' = 0", not to exceed 1/4" in a total run.

##### 1.04 PROJECT/SITE CONDITIONS:

- A. Protection: Protect metal surfaces from contact with lime, mortar, cement, acids, and other harmful surfaces and from careless handling, storage or machining.
- B. Deliver and store materials to prevent damaging and marring finishes.

##### 1.05 WARRANTY:

- A. Warrant entrances and framing systems against defective materials and workmanship for three years beginning thirty days after shipment from Dawson's factory. Adjustments made necessary by shifting or settling of building structure shall not be covered by warranty.

\*\*This warranty does not cover breakdown of protective coatings when furnished as specified herein.\*\*

#### PART II PRODUCTS

##### 2.01 ENTRANCES:

- A. Acceptable product: Dawson Doors Division/Dawson Metal Company, Inc. **Custom Series Doors and Frames**
- B. Bronze Materials: CDA Alloy 464 Naval Brass (#4 satin, #8 mirror, or non-directional graining – choose one), (medium or dark statuary finish, or clear lacquer coating – choose one). Other finishes available; consult factory for details.
  1. Frames: Minimum 0.09" thick
  2. Doors: Minimum 0.06" thick

- C. Lacquer Coating:
  1. Acceptable product: G.J. Nikolas Co., Century Lacquer or equal
  2. Type: Field-applied, clear, air-drying type coating.
- D. Fasteners: Bronze fasteners associated with door construction shall be concealed type.
- E. Design of stile and rail profiles: As indicated on drawings.
  1. CODE MAY STIPULATE BOTTOM RAIL HEIGHT
  2. 1-3/4” or 2” is standard door thickness
- F. Door Construction: Provide continuous reinforcement welded into door body. Three tier metal thickness welded into door body as required for all hardware reinforcement.
  1. Stile and rail doors shall be blanked out from one sheet of metal. No welding shall be performed on face of doors.
  2. Doors to have high impact polystyrene honeycomb core, where required.
  3. Cladding over aluminum or steel constructed doors will not be allowed.
- G. Glazing: Removable glass stop using wet glazing sealant by others. Exterior side of door to be concealed welded. Interior side to include countersunk screws for glazing replacement.
- H. Weatherstripping: Manufacturer’s standard integral wool pile type, replaceable at stiles and rails.

**2.02 FINISH HARDWARE:**

- A. Hardware shall be as specified in Finish Hardware Section.

**2.03 FRAMING:**

- A. Framing Characteristics:
  1. Member size: As indicated on drawings
  2. System Construction: Brakeformed tubular sections, fully welded construction with welds ground smooth and blended to be indistinguishable in finished work.
  3. Finish: Matching entrance doors.
- B. Fasteners shall be bronze. Exposed fasteners shall be countersunk and shall match entrances and framing in color.

**2.04 FABRICATION:**

- A. Fabricate components in accordance with approved shop drawings. Shop fabricate to greatest extent practicable to minimize field cutting, splicing and fastening. Remove burrs from cut edges.
- B. Fabricate system with welded connections as indicated on approved shop drawings. Welding shall be in accordance with AWS standards, performed by qualified welders. Do not distort members or deface exposed finish. Grind exposed welds smooth; blend and refinish exposed surfaces to match adjacent finish.
- C. Fabricate and assemble entrances with welded joints, grind smooth, blend and refinish to match adjacent finish.
- D. Factory preparation per manufacturer templates for finish hardware. Mortise and reinforce frames and door stiles and rails to receive finish hardware in accordance with approved shop drawings.

**PART III EXECUTION****3.01 INSTALLATION:**

- A. Install entrances and framing system in accordance with approved shop drawings, plumb, level and true to line, within specified tolerances. Install frames without use of exposed fasteners, except where indicated on shop drawings.
- B. Before anchoring to structure, shim and brace work plumb, level and in designated location.
- C. Door Installation:
  1. Caulk perimeter of thresholds using exterior sealant.
  2. Install doors and hardware in accordance with manufacturer’s product data. Adjust hardware for proper operation.
  3. Adjust door closers for smooth operation throughout swing.
- D. After installation is complete, all oxidation and/or clear lacquer coating to be applied at this time.

**3.02 CLEANING:**

- A. Clean doors and frames in accordance with manufacturer’s special instructions.