

# DAWSON DOORS

## SECTION 08432

### DESIGNER SERIES BRONZE DOORS AND ENTRANCES

#### PART I GENERAL

##### 1.01 SUMMARY:

###### A. Description

1. Work includes interior and exterior entrance and vestibule 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, provisions for expansion, fastening and sealing methods, door and framing reinforcement, metal finishes, and glazing accessories. 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. 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. Warranty 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 Co., Inc. **Designer 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.

1-3/4” or 2” STANDARD THICKNESS. MAXIMUM STILE WIDTH FOR 1-3/4” DOOR IS 3-1/2”. MAXIMUM STILE WIDTH FOR 2” DOOR IS 6”. RAIL HEIGHTS ARE VARIABLE. CODE MAY STIPULATE BOTTOM RAIL HEIGHT.

- E. Door design:

1. Vertical stiles: Nominal 3-1/2” to 6” wide
2. Top rail: Nominal 4” high or as specified
3. Bottom rail: Nominal 4” high or as specified
4. Door thickness: Nominal 1-3/4” or 2”

- F. Door Construction: Provide offset constructed stile and rail door body. Attach rails to stiles with stainless steel tie rods with additional support provided by welding in top and bottom channels and spigots.

- G. Glazing Stops: Removable glass stops for use with wet glazing sealant by others.

- H. Weatherstripping: Manufacturer’s standard pile type in 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 offset constructed system. Butt joint construction, factory fabricated and assembled
3. Finish: Matching door

- B. Fasteners shall be brass or 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 bolted or screwed 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.
- C. Fabricate and assemble entrances with joints only at intersections of members with uniform hairline connections
- 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 entrances and 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.

#### 3.02 CLEANING:

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