

## STANDARD SWING STAINLESS STEEL DOORS AND ENTRANCES

### PART I - GENERAL

#### 1.01 DESCRIPTION

- A. Work includes exterior entrance and vestibule doors and frames, related sidelites and transoms where applicable, thresholds, and finished hardware as shown on drawings or specified.
  - B. Related work not included in this section:
    - 1. Glass and glazing\*
    - 2. Lock cylinders
    - 3. Sealants between frames and masonry
    - 4. Structural members not within jambs, head members, transom bars and mullions
- \* NOTE: Glass and factory glazing (of doors) may be included if desired. Please specify glass type and thickness.

#### 1.02 QUALITY ASSURANCE:

- A. Manufacturer shall have been regularly engaged in manufacturing stainless steel doors and frames for a period of ten years.
- B. Doors and frames shall be engineered and fabricated by the same manufacturer.
- C. Dawson Doors is an ISO certified company.

#### 1.03 SUBMITTALS

- A. Shop drawings shall include elevations 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: Two (2) finish samples (minimum 4" x 6") shall be submitted per customer specifications indicating texture to be expected in finished work.
  - 1. **Select one:** #4 or #6 satin, #8 mirror, or non-directional
  - 2. Other finishes available; consult factory
- C. Maintenance and Cleaning Data: Instructions for general maintenance and repair of surfaces and finishes.

#### 1.04 WARRANTY:

- A. All finished hardware not fabricated by Dawson to carry's manufacturer's standard warranty
- B. Entrances and framing systems shall be warranted against defective materials and workmanship for three (3) years beginning at completion of installation.
  - 1. Adjustments made necessary by shifting or settling of building structure shall not be covered by warranty.

### PART II - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER: Dawson Doors Division/Dawson Metal Company, Inc.

#### 2.02 MATERIALS:

- A. Shall be 13 gauge stainless steel – **select one of the following:**
  - 1. Type 304 - or - type 316
    - a. Specify type 316 for corrosive environments.
- B. Finishes – **select one:** #4 satin, #6 satin, #8 mirror, non-directional
  - 1. Other finishes available – consult factory

C. Doors:

1. Stainless steel door bodies shall be formed from a minimum of 13 gauge material.
2. **CUSTOM SERIES** door bodies shall be blanked from one sheet of metal and shall have no visible seams. No welding is performed on face of doors.
3. **DESIGNER SERIES** door bodies shall be offset constructed stile and rail with visible seam. Attach rails to stiles with stainless steel tie rods with additional support provided by welding in top and bottom channels and spigots.
4. Formed stainless steel doors shall have a minimum of 13 gauge continuous channel reinforcement welded into door body.
5. The finish is to be applied to the door after fabrication to ensure a blemish-free surface.
6. Door thickness: 2"
7. Stiles: Minimum 2-3/4"
8. Top rail: Minimum 3-1/2" high
9. Bottom rail: Minimum 4" high – local code may stipulate bottom rail height
10. All reinforcing material to be stainless steel and welded to door body. Aluminum, plastic, or other glued-in reinforcements or stiffeners are not allowed.
11. Glazing – two available options:
  - a. Formed-in glass stops at exterior side of door, and removable glass stops with countersunk screws at interior side – available on Custom Series doors only.
  - b. Exterior glass stops attached with concealed screws; and interior removable glass stops attached with countersunk screws – available on both Custom and Designer series.
12. Weatherstrip:
  - a. Shall be manufacturer's standard integral wool pile type, replaceable at stiles and rails.
  - b. Shall occur:
    1. Vertically at meeting stiles on pairs of doors
    2. Concealed at door top and bottom rails (adjustable)
    3. At door stops at both hinge and strike jambs

D. Frames:

1. Stainless steel frames shall be formed from a minimum of 13 gauge material.
2. **CUSTOM SERIES** frames - Brakeformed tubular sections, fully welded construction with welds ground smooth and blended to be indistinguishable in finished work.
3. **DESIGNER SERIES** frames – Offset corner construction (visible seams), factory fabricated and assembled.
  - 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 construction. 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.
4. 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.
5. The finish is to be applied to the frame after fabrication to ensure a blemish free surface.

E. Thresholds:

1. Can be furnished upon request.
2. Thresholds can be stainless steel or aluminum
3. Woodscrew and rawl plug type fastenings shall be approximately 15" on center.
4. Thresholds shall be 6" wide, shall be set on the finished floor, and shall be adequately caulked against water seepage.

## 2.03 FINISH HARDWARE

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

## **PART III – EXECUTION**

### 3.01 INSTALLATION

- A. Install entrances and framing system in accordance with approved shop drawings, plumb, level and true to line, with 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. Caulk perimeter of thresholds using exterior sealant.

### 3.02 CLEANING:

- A. Remove stains or materials having adverse effect on components and finishes as work progresses. Remove excess glazing and sealant compounds.
- B. Just prior to Date of Substantial Completion, clean entire entrance assembly, including interior and exterior metal and glass. Comply with door manufacturer's product data for cleaning. Flush with clean water.

### 3.03 PROJECT/SITE CONDITIONS:

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