

SECTION 08100

HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Included: Fabrication and installation of hollow metal doors and frames.

1.02 REFERENCE STANDARDS

- A. American Society for Testing and Materials (ASTM) A366, A525.
- B. Steel Door Institute (SDI): SDI-100
- C. Federal Specifications (FSJ): RR-D-5758

1.03 SUBMITTALS

- A. Shop Drawing: Show frame profile, dimensions, anchorage, hardware mounting, gages of metal; submit manufacturer's descriptive literature.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Steel: Doors and frames of ASTM A366 or A569, stretcher level.
- B. Finishes: Bonderized, baked on primer. Galvanized at exterior.

PART 3 - EXECUTION

3.01 FABRICATION

- A. Door Frames - Interior & Exterior:
 - 1. Custom welded with integral shop and trip, FS RR-D-575.
 - 2. 16 gage at interior openings 3'-10" or less in width.
 - 3. 14 gage at openings over 3'-10", at wicket door and at all exterior doors.
 - 4. Pre-drill all frames for installation of three silencers each.
- B. Door Frames - Exterior:
 - 1. Custom welded with integral stop and trim, FS RR-R-575.
 - 2. 14 gage, ASTM A366, galvanized.
- C. Frame Reinforcement:
 - 1. 7 gage 1-1/4" x 10" minimum at hinges.
 - 2. 12 gage at strike, closer, and surface mounted hardware.



3. Jamb Anchors: 4-14 gage minimum, welded to frame.
4. Floor Anchors: 14 gage minimum welded to frame.

D. Hollow Metal Doors:

1. 16 gage face sheet, ASTM A366, galvanized at exterior.
2. Fully welded seamless with no visible seam on the faces or vertical edges.
3. Close top and bottom of door with 16 gage channels.
4. Reinforce doors with 7 gage angle gusset for hinges; 12 gage minimum for all other hardware.
5. Glass Stops: 16 gage minimum.
6. Rust inhibitive primer baked on.
7. Exterior doors shall be insulated with a maximum "U" factor of 1.3.

3.02 INSTALLATION

- A. Check frames for twist or rack. Erect plumb, brace until firmly anchored.
- B. Fit doors to frames with uniform 3/32" clearance at jambs and 1/8" at head.
- C. Touch up chipped primer before painting.

END OF SECTION

