

SECTION 08 11 13

STEEL DOORS AND FRAMES

1 PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of contract including General and Supplementary Conditions and Division 1 specification sections apply to Work of this section.

1.2 SECTION INCLUDES

- A. Steel doors panels and frames; non-rated and fire rated

1.3 SUBMITTALS

- A. Shop Drawings: Indicate door and frame elevations, internal reinforcement, cut-outs for glazing, and finishes.
- B. Product Data: Indicate door and frame configurations, location of cut-outs for hardware reinforcement.

1.4 QUALITY ASSURANCE

- A. Conform to the following:
 - 1. SDI-100 - Standard Steel Doors and Frames.
 - 2. DHI - Door Hardware Institute - The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames and Builder's Hardware.
 - 3. Fire Rated Door Panel and Frame Construction: ASTM E152. NFPA 252. UL 10B. NFPA 80.
 - 4. Handicapped: ICC/ANSI A117.1 - 2003, ADA.
- B. Warranty: 10 year warranty against defects in materials and workmanship.

2 PART 2 PRODUCTS

2.1 DOORS AND FRAMES

- A. Manufacturers:
 - 1. Amweld Building Products.
 - 2. Brockway Smith Co.
 - 3. Ceco Door Products.
 - 4. Curries Co.
 - 5. Fleming Door Products.
 - 6. Republic Builders Products.
 - 7. Steelcraft Manufacturing
 - 8. Substitutions: Permitted, subject to compliance with requirements.

- B. Exterior Frames: 14 gage, galvanized steel, with hemmed return, closed cell polyethylene foam, weather stripping and threshold. Prep to receive electric strikes where scheduled.
- C. Interior Frames: 16 gage steel frames with hemmed return.
- D. Exterior Doors: (Insulated) 1-3/4" thick, SSI 100 Level 3, Extra Heavy Duty, 16 gage door faces, flush design, galvanized to ASTM A653 G60.
- E. Interior Doors: (Fire Rated and Non-fire Rated) 1-3/4" thick, SDI 100 Level 2, Heavy Duty, 18 gage door faces, flush design.
- F. Door Core:
 - 1. Exterior Doors: polyurethane foam.
 - 2. Fire Rated Doors: mineral core.
- G. Thermal Insulated Door: Total insulation R value of not less than 10.

2.2 ACCESSORIES

- A. Lights: Tempered insulating glass at exterior doors, 1/4" tempered float glass at interior non-fire rated doors, 1/4" wired float glass at interior fire rated doors..
- B. Silencers: Resilient rubber fitted into drilled hole.
- C. Weatherstripping; Integral compression type at jambs and head, bulb and fin at bottom.
- D. Primer: Zinc chromate type.

2.3 FABRICATION - DOORS

- A. Astragals for Double Doors (If required): Aluminum, T shaped, specifically for double doors. Provide units with fire rating at fire rated double doors.
- B. Fabricate doors with hardware reinforcement welded in place.
- C. Attach appropriate label to each fire rated door. DO NOT PAINT OVER LABELS

2.4 FABRICATION - FRAMES

- A. Fabricate steel frames knock-down for field assembly for interior installation in drywall partitions; welded frames for exterior doors, double egress doors and installation in masonry walls.
- B. Fabricate frames with hardware reinforcement plates welded in place.
- C. Prepare frame for silencers and install.
- D. Attach appropriate label to each fire rated frame.

2.5 FINISH

- A. Steel Sheet: Galvanized to ASTM A525 G60).

- B. Primer: Air dried.

3 PART 3 EXECUTION

3.1 INSTALLATION

- A. Install doors and frames in accordance with SDI-100.
- B. Coordinate installation of doors and frames with installation of hardware specified in Section 08 71 00.
- C. Coordinate with gypsum board wall construction for frame anchor placement.
- D. Install door louvers plumb and level.

3.2 TOLERANCES

- A. Maximum Diagonal Distortion: 1/8 inch measured with straight edge, corner to corner.

...END OF SECTION 08 11 13