

SECTION 08110

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: ANSI A117.1, ADA.

2 PART 2 PRODUCTS

2.1 DOORS AND FRAMES

- A. Manufacturers:
  - 1. Amweld Building Products LLC.
  - 2. Ceco Door Products.
  - 3. Curries Co.
  - 4. Fleming Door Products.
  - 5. General Products Co. Inc.; Benchmark
  - 6. Pease Doors Inc.; Ever-Strait.
  - 7. Republic Builders Products.
  - 8. Stanley Works.
  - 9. Steelcraft Manufacturing Co.
  - 10. Therma-Tru Corp.
- B. Exterior Frames: Level 2, nominal 16 gage steel, galvanized to ASTM A653 G60.

- C. Interior Frames:
  - 1. Apartment Entrances: Level 1, nominal 18 gage steel with applied wood casings.
  - 2. Common Doors: Level 1, nominal 16 gage steel.
- D. Exterior Doors: (Insulated) 1-3/4" thick, level 2, heavy duty, embossed design, galvanized to ASTM A653 G60.
- E. Interior Doors: (Fire Rated) 1-3/4" thick, level 1, standard duty, embossed design.
- F. Door Core: polyurethane foam.
- G. Thermal Insulated Door: Total insulation R value of 10.

## 2.2 ACCESSORIES

- A. Lights: Tempered insulating glass.
- 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.
- 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. .
- B. Fabricate wood frames fully assembled with prehung doors.
- C. Fabricate frames with hardware reinforcement plates welded in place.
- D. Prepare frame for silencers and install.
- E. 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. Install fire rated doors in accordance with NFIPA 80.
- C. Coordinate installation of doors and frames with installation of hardware specified in Section 08705.
- D. Coordinate with gypsum board wall construction for frame anchor placement.
- E. 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