

## SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

### PART 1 - GENERAL

#### 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ANSI/SDI A250.8.
- C. Fire-Rated Doors and Frames: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per NFPA 252 at positive pressure.
  - 1. At stairs and exit passageways, provide doors that have a temperature rise rating of 450 deg F.
- D. Smoke-Control Door Assemblies: Comply with NFPA 105 or UL 1784.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Cold-Rolled Steel Sheets: ASTM A 1008/A 1008M, suitable for exposed applications.
- B. Hot-Rolled Steel Sheets: ASTM A 1011/A 1011M, free of scale, pitting, or surface defects.
- C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, with G40A40 metallic coating.
- D. Frame Anchors: ASTM A 591/A 591M, 4OZ coating designation; mill phosphatized.
  - 1. For anchors built into exterior walls, sheet steel complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, hot-dip galvanized according to ASTM A 153/A 153M, Class B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.

#### 2.2 HOLLOW METAL DOORS AND FRAMES

- A. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated.
  - 1. Steel Sheet Thickness for Interior Doors: 0.053 inch.
  - 2. Fabricate interior frames with mitered or coped corners knocked down for field assembly.
  - 3. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
  - 4. Frame Anchors: Not less than 0.042 inch thick.

- B. Door Silencers: Three on strike jambs of single-door frames and two on heads of double-door frames.
- C. Prepare doors and frames to receive mortised and concealed hardware according to ANSI A250.6 and ANSI A115 Series standards.
- D. Reinforce doors and frames to receive surface-applied hardware.
- E. Prime Finish: Manufacturer's standard, factory-applied coat of lead- and chromate-free primer complying with ANSI/SDI A250.10 acceptance criteria.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Install hollow metal frames to comply with ANSI/SDI A250.11.
  - 1. Fire-Rated Frames: Install according to NFPA 80.
- B. Install doors to provide clearances between doors and frames as indicated in ANSI/SDI A250.11.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying rust-inhibitive primer.

END OF SECTION 081113