
SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES**PART 1 - GENERAL****1.1 SECTION REQUIREMENTS**

- A. Submittals: Product Data and Shop Drawings.

PART 2 - PRODUCTS**2.1 HOLLOW METAL DOORS AND FRAMES**

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Amweld Building Products, LLC.
 2. Ceco Door Products, an Assa Abloy Group
 3. Curries Company, an Assa Abloy Group
 4. Pioneer Industries, Inc.
 5. Republic Doors and Frames
 6. Steelcraft, and Ingersoll-Rand Company.
- B. Doors: Complying with SDI A250.8 for level and model and SDI A250.4 for physical-endurance level indicated, 1-3/4 inches (44 mm) thick unless otherwise indicated.
1. Exterior Doors: Level 3 and Physical Performance Level A (Extra Heavy Duty) metallic-coated steel sheet faces.
 - a. Thermal-Rated (Insulated) Doors: Where indicated, provide doors with thermal-resistance value (R-value) of not less than 2.9 when tested according to ASTM C 1363.
 2. Hardware Reinforcement: Fabricate according to SDI A250.6 with reinforcement plates from same material as door face sheets.
- C. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated.
1. Steel Sheet for Exterior Frames: 0.067-inch- (1.7-mm-) minimum thickness, metallic coated.
 2. Exterior Frame Construction: Full profile welded.
 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 (1.0 mm) thick.
- D. Door Silencers: Three on strike jambs of single-door frames and two on heads of double-door frames.
- E. Grout Guards: Provide where mortar might obstruct hardware operation.
- F. Prepare doors and frames to receive mortised and concealed hardware according to SDI A250.6 and BHMA A156.115.

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- G. Reinforce doors and frames to receive surface-applied hardware.
 - 1. Hinge: Continuous channel for full height of door, 12 gauge.
 - 2. Closer: Continuous channel for full length of door, 12 gauge.
 - 3. Strick: Continuous channel for full height of door, 14 gauge.
 - H. Finish: Manufacturers standard colors as selected by the owner. Galvannealed A60 Factory Applied coating complying with ASTM A 653/A 653 M.

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, free of scale, pitting, or surface defects.
- C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, G60 (Z180) or A60 (ZF180).
- D. Frame Anchors: ASTM A 879/A 879M, 4Z (12G) 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.

2.3 FABRICATION

- A. All doors shall be constructed with smooth, flush surfaces, without visible joints, seams or exposed faces.
- B. Tops and bottoms of all doors shall be reinforced with a continuous steel channel not less than 16 gauge, extending the full width of the door and spot welded to the face sheet. The top channel shall be flush steel.
- C. Floor and Jamb Anchors:
 - 1. Floor anchors shall be securely welded or screwed inside each jamb, with two holes provided at each jamb for anchorage.
 - 2. Minimum thickness of floor anchors shall be 16 gauge.
 - 3. Frames for installation in masonry walls shall be provided with adjustable, wire-type jamb anchors. Anchors shall be not less than 0.156 inch diameter steel wire. The number of anchors shall be as follows:
 - a. Frames up to 7'-6" in height: three anchors.
 - b. Frames 7'-6" to 8'-0" in height: four anchors.
 - 4. Frames for installation in stud partitions shall be provided either with steel anchors of not less than 18 gauge thickness, securely welded inside each jamb or insert type with notched clip to engage stud inserts to back of the frame as identified above.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install hollow metal frames to comply with SDI A250.11.

- B. Install doors to provide clearances between doors and frames as indicated in 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. Use galvanizing repair paint for metallic coated surfaces.

END OF SECTION