

## SECTION 08 11 13

### HOLLOW METAL DOORS AND FRAMES

#### PART 1 GENERAL

##### 1.1 SUMMARY

- A. Furnish labor and materials to complete Hollow Metal Doors, Hollow metal frames, and related items as shown and specified.

##### 1.2 RELATED SECTIONS

- A. Section 04 22 00 - Concrete Unit Masonry
- B. Section 08 14 16 - Wood Doors.
- C. Section 08 71 00 – Finish Hardware
- D. Section 08 43 13 - Aluminum Storefront, Doors, and Exterior Fixed Units.
- E. Section 08 81 00 – Glass and Glazing
- E. Section 09 29 00 – Drywall
- F. Division 26 - Electrical Requirements.

##### 1.3 SUBMITTALS

- A. Comply with requirements of Section 01 33 00.
- B. Shop Drawings: Submit prior to fabrication for approval of Architect detailed shop drawings, showing all doors, frames, other miscellaneous materials. Shop drawings to show all locations of reinforcement for door hardware in doors and frames.

##### 1.4 REFERENCES

- A. Comply with State of Arkansas Adopted ADA Accessible Guidelines in regard to accessible or handicapped features.

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## PART 2 PRODUCTS

### 2.1 MATERIALS

#### A. Hollow Metal Frames -

1. Manufactured by Fleming, Steelcraft, Ceco, Curries or Amweld, or approved alternate, constructed of cold rolled steel, commercial quality, annealed and temper passed. All frames, interior, exterior: 16 gauge all openings 3'-6" or less, and 14 gauge for all openings over 3'-6".
2. Exterior Frames: Fleming, Steelcraft, Ceco, Curries or Amweld, or approved alternate, special galvanized, paintable. Field paint all doors and frames.
3. Frames:
  - a. All frames shall be a one-piece unit type with head and jambs completely mitered and face joints continuously welded in their entirety and ground smooth. Inside corners to be caulked prior to painting. The use of tenons or bent tabs is not acceptable. Where transoms and sidelights are required, frames: shop assembled for a proper fit, then shipped in largest size units permitted by shipping restriction. Mullions: assembled by sliding two sections together with continuous welded interior guides. Screwed on mullion covers and visible seams, not acceptable. All seams ground smooth. All exposed welding tabs ground smooth.
  - b. No KD type frames shall be permitted.
4. Provide concealed reinforcements, drilled and tapped, to receive hardware. Hinge reinforcements: 10 gauge with top hinge high frequency usage hinge reinforcement, 10 gauge angle stiffener welded to both sides of the frame and hinge reinforcement. Lock reinforcement: spring type stabilizer to hold lock in place. Lock and surface applied hardware reinforcement 10 gauge. Clip angles: spot welded to bottom of each frame for anchoring to floor. Mortar 14-gauge anchors, one per each 2' of height, per jamb of a type to suit conditions and requirements. All other reinforcement for hardware to be minimum 10 gauge.
5. Frames where Underwriter Labeled doors are used: carry Underwriter Label frame.
6. Provide three (3) rubber silencers on strike side of all frames.
7. All exposed screws to be countersunk using flathead screws, flush with surface.

#### B. Hollow Metal Doors:

1. Non-label and label steel doors: to be completely flush design with lights, louvers, etc., as required on schedule doors as manufactured by Ceco, Amweld, Steelcraft, Curries, Fleming, or approved equal. Provide **type "A" series** doors with flush door light frames where lights are called for on drawings.
2. Exterior Doors: Fleming, Steelcraft, Ceco, Curries or Amweld, or approved alternate, 'D' Series, special galvanized, flush design, paintable. Field paint.
3. Construction: Doors shall be constructed of 18-gauge sheets for interior applications, and 16 gauge for exterior applications. Leveled steel formed and rigidly connected and reinforced inside with continuous vertical interlocking 24-gauge stiffeners. All doors shall be continuously arc welded vertically where the two outer sheets are joined on edges and dressed smooth.
4. All exterior doors shall be insulated and sound deadened with super-core expanded foam or approved alternate.

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- 5. Provide and properly locate required reinforcement in door for all door mounted hardware.
  - 6. For door leaf 3'-6" to 4'-0" or wider, provide preparation for 2 pairs butt hinges or continuous hinge as specified.
- C. Doors and frames shall be prepared to receive hardware as specified in section 08 71 00 and glass of type, size, and shape as shown on drawings. Use reinforcing plates welded to inner face of frames for all hardware.
- D. All exterior doors to receive aluminum thresholds. Supply with added aluminum spacer on exterior side if required. Threshold to be type and style to match details if shown on plans, but in no case on plans, no more than 1/2" in height with transition slope not to exceed 1:2 to meet Arkansas Architectural Barriers Law and Americans with Disabilities Act Guidelines.
- E. Coordinate frame throat sizes with wall thicknesses where frames are installed in stud and drywall partitions or where frames are installed in cut openings at existing masonry walls.
- F. Provide three (3) rubber door silencers for each single leaf door frame, and two (2) door silencers for each double leaf door frame.

## PART 3 EXECUTION

### 3.1 COORDINATION

- A. Coordinate location and installation of reinforcement for all scheduled door hardware items attached to hollow metal doors and frames.

### 3.2 FRAME ANCHORING

- A. Provide proper anchors for wall type frames are to be installed in.
- B. Frames installed in existing masonry walls are to be bolted through at door jambs. Dimple set bolts and fill with metal filler and sand smooth.
- C. Hollow metal door frame jambs and heads are to be slushed full of mortar. Refer to Section 04 22 00 Concrete Masonry Units.

### 3.3 FINISHES

- A. All surfaces to be job finished shall be thoroughly cleaned, removing all rust, scales, grease, etc.
- B. All exterior hollow metal doors and frames: Given shop coat of rust resistant prime paint oven baked.

### 3.4 STORAGE AND ERECTION

- A. Carefully store frames in an upright position, not on ground, protected from moisture and weather. Frames and doors that are dented or sprung, before, during, or after installation will not be accepted.

END OF SECTION

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