

**SECTION 08 11 13  
HOLLOW METAL DOORS AND FRAMES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies steel frames and related components.

**1.2 RELATED WORK**

- A. Interior wood doors: Section 08 14 00 INTERIOR WOOD DOORS.
- B. Door Hardware: Section 08 71 00, DOOR HARDWARE.
- C. Glazing: Section 08 80 00 GLAZING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

**1.4 STORAGE AND HANDLING**

- A. Store doors and frames at the site under cover.
- B. Protect from rust and damage during storage and erection until completion.

**1.5 APPLICABLE PUBLICATIONS**

- A. Door and Hardware Institute (DHI):
  - A115 Series.....Steel Door and Frame Preparation for Hardware,  
Series A115.1 through A115.17
- B. American National Standard Institute:
  - A250.8-2003 (R2008).....Specifications for Standard Steel Frames

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Sheet Steel: ASTM A1008, cold-rolled for panels (face sheets) of doors.
- B. Anchors, Fastenings and Accessories: Fastenings anchors, clips connecting members and sleeves from zinc coated steel.
- C. Prime Paint: Paint that meets or exceeds the requirements of A250.8.

## **2.2 FABRICATION OF METAL FRAMES**

### **A. General:**

1. ANSI A250.8, 1.3 mm (0.053 inch) thick sheet steel, types and styles as shown or scheduled.
2. Frames for doors over 900 mm (3 feet) in width to be supported by and attached to structural steel subframes: Minimum (0.053 inch) thick.
3. Knocked-down frames are not acceptable, unless allowed by Resident Engineer.

### **B. Reinforcement and Covers:**

1. ANSI A250.8 for, minimum thickness of steel reinforcement welded to back of frames.

### **C. Terminated Stops: ANSI A250.8.**

### **D. Glazed Window:**

- a. Integral stop on office side of frame.

### **E. Two piece frames:**

- a. One piece unequal leg finished rough buck sub-frames, drilled for anchor bolts.
- b. Preassemble at factory for alignment.

### **F. Frame Anchors:**

#### **1. Floor anchors:**

- a. Where floor fills occur, provide extension type floor anchors to compensate for depth of fill.
- b. At bottom of jamb use (0.053 inch) thick steel clip angles welded to jamb and drilled to receive two (1/4 inch) floor bolts.

#### **2. Jamb anchors:**

- a. Locate anchors on jambs near top and bottom of each frame, and at intermediate points not over (24 inches) apart.
- b. Form jamb anchors of not less than (0.042 inch) thick steel unless otherwise specified.
- c. Anchors for stud partitions: Either weld to frame or use lock-in snap-in type. Provide tabs for securing anchor to the sides of the studs.
- d. Anchors for observation windows and other continuous frames set in stud partitions.

Bed Storage Room E1-276 & Patient Advocacy Room A2-103

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3801 Miranda Ave

Palo Alto, CA 94304

- 1) In addition to jamb anchors, weld clip anchors to sills and heads of continuous frames over 1200 mm (4 feet) long.
  - 2) Anchors spaced 600 mm (24 inches) on centers maximum.
- e. Modify frame anchors to fit special frame and wall construction and provide special anchors where shown or required.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Plumb, align and brace frames securely until permanent anchors are set.
1. Use triangular bracing near each corner on both sides of frames with temporary wood spreaders at midpoint.
  2. Use wood spreaders at bottom if the shipping spreader is removed.
  3. Protect frame from accidental abuse.
  4. Remove wood spreaders and braces only after the walls are built and jamb anchors are secured.
- B. Floor Anchors:
1. Anchor the bottom of door frames to floor with two 6 mm (1/4 inch) diameter expansion bolts.
  2. Power actuated drive pins may be used to secure frame anchors to concrete floors.
- C. Jamb Anchors:
1. Secure anchors to sides of studs with two fasteners through anchor tabs. Use steel drill screws to steel studs.

#### **3.2 INSTALLATION OF DOORS AND APPLICATION OF HARDWARE**

Install doors and hardware as specified in Section 08 14 00, WOOD DOORS  
Section 08 71 00, DOOR HARDWARE.

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