

**SECTION 10 22 13  
WIRE MESH PARTITIONS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section covers steel mesh partitions complete with doors and hardware.

**1.2 RELATED WORK**

Lock cylinders keyed to system: Section 08 71 00, DOOR HARDWARE.

**1.3 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation also.
- B. American Society for Testing and Materials (ASTM):  
A36/36M-05.....Carbon Structural Steel

**1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Mesh partitions, showing design, construction and materials.
- C. Provide layout drawings with detailed erection drawings and specifications.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Woven Wire: 38 mm (1-1/2 inch) diamond mesh No. 10 gage 3.4 mm (0.1345 inch diameter) uncoated steel crimped and woven.
- B. Steel Shapes, Plates and Bars: ASTM A36/36M.
  - 1. Vertical Channel: 32 x 16 x 3 mm (1-1/4 x 5/8 x 1/8 inch).
  - 2. Horizontal Channel: 25 x 13 x 3 mm (1 x 1/2 x 1/8 inch).
  - 3. Center Reinforcement: Two, 25 x 13 mm (1 x 1/2 inch) turned in toe channels bolted.
  - 4. Corner Post: 45 x 45 3 mm (1-3/4 x 1-3/4 x 1/8 inch) angle.
  - 5. Top Reinforcement: 57 x 25 x 5 mm (2-1/4 x 1 x 3/16) channel.
  - 6. Cast or forged adjustable floor shoes.
- C. Doors:
  - 1. Hinged Door:
    - a. Frame: 32 x 13 mm (1-1/4 x 1/2 x 1/8 inch) channel, with a midpoint channel.

- b. Hardware: 1-1/2 pair butts A 212 NRP 100 mm (4 inch). Pick proof mortise type lock, key operated outside, recessed knob inside (see Hardware Section for lock cylinder).
- c. Miscellaneous: Provide sheet metal baffle at lock, continuous angle stop and flat bar closures.

## **2.2 FABRICATION**

- A. Woven wire clinched to frame, mortise and tendon joints. Frame units shall be maximum 1520 mm (5 feet) wide.
- B. Rivet hardware to doors and frames. Bolt sliding door carriers to door.
- C. Finish: Steel shall be phosphate coated and shall have one coat of baked enamel. Color shall be manufacturers standard gray. Do not paint shelves.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Erect the partition in accordance with the manufacturers detailed erection drawings.
- B. Secure top reinforcing channels with 6 mm (1/4-inch) "U" bolts, 710 mm (2 feet 4 inches) on center.
- C. Secure vertical posts with 6 mm (1/4 inch) bolts 300 to 380 mm (12 to 15 inches) on center, and anchor verticals at walls to wall 380 mm (15 inches) on center, shim as required.
- D. Provide floor shoes at each post and each corner, adjust to level, anchor to floor with two anchors for each shoe.

### **3.2 ACCEPTANCE**

- A. Repair or replace damaged parts, touch-up abraded paint with matching paint.
- B. Partitions shall be level and firm. Adjust hardware to operate smoothly and latch securely.

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