

SECTION 10605 - WIRE MESH PARTITIONS

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing woven wire partitions, complete with all wire fabric, channels, frames, supports, bracing, doors, bolts, hardware, and accessories for a complete installation, including field bracing, erection accessories, and all appurtenant work.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 05500 Miscellaneous Metals
 - 2. Section 08710 Finish Hardware

1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:
 - 1. Uniform Building Code

1.4 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:
 - 1. Shop drawings for fabrication and erection of wire mesh partitions. They shall include plans, elevations, and large scale details, showing anchorage and accessory items. Location template drawings shall be provided for items supported by, or anchored to, permanent construction.
 - 2. Manufacturer's technical data and installation instructions.
 - 3. Samples of all manufacturer's standard finishes and colors of wire mesh and frame members.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Wire mesh partitions shall be provided as complete units, produced by a single manufacturer, including all necessary mounting accessories, fittings, and fastenings.
- B. Height of partitions shall be ceiling height (maximum [] ft high) unless indicated otherwise. Doors shall be hinged, 3 ft wide by 7 ft in height.

- C. Partitions shall have baked-on enamel finished coat. Color and finish shall be as selected by the CONSTRUCTION MANAGER.
- D. All material sizes specified are minimum.

2.2 MATERIALS

- A. Woven wire partition materials shall conform to the following requirements:
 - 1. Wire fabric shall be 10-gage steel wire woven into 1-1/2-inch diamond mesh capable of being securely clinched to frames.
 - 2. Vertical frames shall be 1-1/4-inch by 5/8-inch, cold-rolled "C" section channels with 1/4-inch bolt holes at 12 inches o.c.
 - 3. Horizontal frames shall be 1-inch by 1/2-inch cold-rolled channels.
 - 4. Center reinforcing bar shall be 1-inch by 1/2-inch cold-rolled channel.
 - 5. Capping bar shall be 2-1/4 inches by 1-inch cold-rolled channel with 1/4-inch "U" bolts at 2 ft - 4 inches on centers, maximum.
 - 6. Corner posts shall be 1-1/4-inch by 1-1/4-inch angles with 1/4-inch bolt holes to match partition holes.
 - 7. Floor sockets shall be steel, 2-1/2 inches high with set screw adjustment.
 - 8. Anchors into concrete floors shall be stainless steel.

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NTS: Delete stiffening bars below if partition height does not exceed 8 feet.

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- [9. Stiffening Bars: For free-standing partitions over 8 feet in height, flat bar stiffener posts shall be provided between abutting panel frames. Size shall be as recommended by partition manufacturer for the partition height required. Size of stiffening bars shall be increased if required to maintain partition rigidity.]
- 10. Hinged door frames shall be 1-1/4-inch by 1/2-inch steel channels with 1-1/4-inch by 1/8-inch flat bar cover 3 sides, and 1-3/8-inch by 3/4-inch by 1/8-inch angle riveted or welded to lock side. Each door shall be provided with 1-1/2 pair butt hinges riveted or welded to both door and transom bar. Doors shall have substantial mortise type cylinder locks operated by key outside, recessed knob inside. Lock cylinder shall be master keyed and be the same lock cylinder as is provided under Section 08710. [The doors shall be provided with cane bolts at bottom and chain bolt at the top of the fixed leaf.]

2.3 MANUFACTURERS

- A. Wire mesh partitions shall be of the following manufacture and type (or equal):

1. Acorn Wire and Iron Works, Inc., "Type 130A"
2. California Wire Products Corp.
3. King Wire Partitions, Inc.
4. Standard Wire and Steel Works

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Partitions shall be installed per manufacturer's printed specifications and instructions. The partitions shall be erected plumb, rigid, properly aligned, and securely fastened in place, braced and secured to meet requirements of the Building Code. All joints shall be mortised and tenoned or welded, as applicable.
- B. Additional field bracing shall be provided as indicated or as necessary for a rigid, secure installation. Where partition runs exceed 20 feet without intersection or connection to overhead framing, manufacturer's standard line posts and base plates shall be provided at recommended intervals to ensure partition rigidity and stability.
- C. Cutouts shall be provided for pipes, ducts, beams, and other items shown or necessary for partition installation. Edges of cutouts shall be finished to provide a neat, protective edge.

3.2 ADJUST AND CLEAN

- A. Moving components shall be adjusted for smooth operation without binding.
- B. Damaged finish shall be touched-up after completion of installation using field-applied paint to match color of shop-applied finish.

**** END OF SECTION ****