

SECTION 10 22 13

WIRE MESH PARTITIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Sure-Guard™ Severe-Duty wire mesh partitions as manufactured by The G-S Company.

1.2 RELATED SECTIONS

- A. Section 05 50 00 – Metal Fabrications

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets for specified product, including:
 - 1. Short form product spec sheet
 - 2. Door/Slide gate hardware catalog cuts
- C. Shop Drawings:
 - 1. Submit drawings indicating fabrication and installation of wire mesh partitions.
 - 2. Approved shop drawings shall indicate field measurements prior to fabrication.
 - 3. Include plans, elevations and large scaled details showing anchorage and accessory items.
- D. Selection Samples: For each finish product specified, provide two color charts representing manufacturer's full range of available colors.
- E. Verification Sample: Provide one (1) sample, minimum size 12 inches (300 mm) square, representing actual product and color selected.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Member: Woven Wire Products Association.
 - 2. Provide Sure-Guard™ Severe-Duty wire mesh partitions as complete units produced by The G-S Company, including necessary mounting accessories, fittings and fasteners.
- B. Installer Qualifications:
 - 1. Approved by manufacturer, and/or
 - 2. Three (3) years (min) experience with wire-mesh-systems' installation.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities.

1.6 PROJECT CONDITIONS

- A. Installer/Purchaser must examine areas where product is to be installed prior to fabrication and installation to ensure building walls, floors and overhead constructions are structurally sound and capable of receiving wire mesh partition installation.
- B. Installer/Purchaser must notify General Contractor/Architect of deficiencies in building walls, floors and overhead constructions for corrective measures prior to wire mesh partition installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The G-S Company, 7920 Stansbury Road, Baltimore, MD 21222; Tel: 410-284-9549; Email: Sales@g-sco.com; Web: www.g-sco.com.
- B. Substitutions: Not permitted

2.2 WOVEN WIRE MESH PARTITIONS AND ENCLOSURES

- A. Configuration
 - 1. Refer to drawings for layout.
 - 2. Partitions shall be framed to fit with 2 inches (51 mm) nominal clearance around pipes, ducts and structure. Cap bar installation and access into floor sockets shall require top rail to be a minimum of 3 inches (76 mm) clear of overhead structure.
 - 3. Beveled panels shall be provided to accommodate sloping floors and ceilings.
 - 4. Panel module shall be a maximum of 5 feet (1.5 m) wide by 12 feet (3.7 m) high. Configurations shall be made of combinations of panel modules, stacked if greater than 12 feet (3.7 m) high. Provide stiffener posts for panels over 12 feet (3.7 m) high.
 - 5. Provide anchors and fasteners appropriate for substrate material.
- B. Sure-Guard™ Severe-Duty Partitions as manufactured by The G-S Company.
 - 1. Material: Steel.
 - 2. Wire Mesh: No. 6 gage (4.88 mm), 2-inch (50.8 mm) diamond woven wire mesh clinched to frames.
 - 3. Vertical frames: 1-1/2 inch by 3/4 inch by 11 gage (38 mm by 19 mm by 3 mm) channels with slotted holes for 3/8 inch (9.5 mm) bolts at 18 inches (457 mm) O.C. – mortise and tenon all corners.
 - 4. Horizontal Reinforcing Members: (2) 1-1/4 inch by 5/8 inch by 13 gage (32 mm by 16 mm by 2.3 mm) “C” channels riveted toe-to-toe thru mesh and welded to vertical frames.
 - 5. Cap Rail: 3-inch (76 mm) by 4.1# channel with 1/4 inch (6mm) “U” bolts 2 feet 0 inches (711 mm) O.C.
 - 6. Corner and Intersecting Posts: 2 inch by 2 inch by 1/8 inch (51 mm by 51 mm by 3 mm) angle for 90 degree corners, 1-1/2 inch (38 mm) pipe posts for other than 90 degrees, 2 inch by 2 inch (51 mm by 51 mm) tubes for 3 and 4 way intersections.
 - 7. Vertical Flat Bar Stiffening Mullions: For all partitions.
 - a. 1/4 inch by 2 inch (6 mm by 51 mm) vertical flat bar mullion posts for partitions up to 16 feet (4.9 m) high.
 - b. 5/16 inch by 2-1/2 inch (8 mm by 64 mm) vertical flat bar mullion posts for partitions 16 feet (4.9 m) to 18 feet (5.5 m) high.
 - c. 5/16 inch by 3 inch (8 mm by 76 mm) vertical flat bar mullion posts for partitions 18 feet (5.5 m) to 20 feet (6.1 m) high.

8. Line Post: For freestanding partitions, provide 3 inch (76 mm) by 4.1# channel line posts at 20 lineal feet (6.1 m) O.C. (max) with 5 inch by 18 inch by 1/4-inch (127 mm by 457 mm by 6 mm) base plates.
9. Hinged Door Frames: 1-1/2 inch by 3/4 inch by 11 gage (38 mm by 19 mm by 3 mm) channel with 1/8 inch by 1-1/2 inch (3 mm by 38 mm) flat bar band on four sides, and as slam bar welded to lock side. Each door to have 1-1/2 pair butt hinges welded to both door and transom bar, and a mortise type cylinder lock. Entry by key, exit by recessed thumb turn.
10. Sliding Door Frames: 1-1/2 inch by 3/4 inch by 11 gage (38 mm by 19 mm by 3 mm) channel with 1/8 inch by 1-1/2 inch (3 mm by 38 mm) flat bar band all around. Each door to have two (2) 4-wheel roller bearing hangers, box track, bottom guide channel and mortise type cylinder lock. Entry by key, exit by recessed thumb turn.
11. Service Window Panels (if indicated on drawings as being required): Sizes of hinged or sliding panels with or without shelving as indicated on drawing.
12. Sheet Metal Bases Wainscot (if indicated on drawings as being required): Partition panels shall receive 16 gage (1.5 mm) sheet in lower portion as wainscot to 42 inches AFF.
13. Finish: Electrostatically sprayed enamel in color as selected by Architect from manufacturer's color charts.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Erect partitions plumb, rigid, properly aligned and securely fastened in place, complying with approved shop drawings.
- C. Erector to provide additional field bracing and clips as required for a rigid secure installation.
- D. Adjust moving components for smooth operation without binding.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION