

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 09 91 23 INTERIOR PAINTING .
- .2 Section Division 26-Wiring for electronic hardware.

1.2 REFERENCE STANDARDS

- .1 ASTM International
 - .1 ASTM A123/A123M-13 , Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .2 ASTM A653/A653M-13 , Standard Specification for Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process.
- .2 CSA Group
 - .1 CSA G40.20/G40.21-13 , General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CSA W59-13 , Welded Steel Construction (Metal Arc Welding).
- .3 Green Seal (GS)
 - .1 GS-11-2013 , Standard for Paints and Coatings.
- .4 Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - current edition .
 - .1 MPI #47, Alkyd, Interior, Semi-Gloss.
- .5 South Coast Air Quality Management District (SCAQMD)
 - .1 SCAQMD Rule 1113-13 , Architectural Coatings.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00- Submittal Procedures .
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for wire mesh partitions and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Quebec, Canada.
 - .2 Indicate partition panel modules and types, materials, gauges, finishes, door and other openings, hardware, fastening methods to adjacent structure, ceiling details, and assembly methods.
- .4 Samples:

- .1 Submit duplicate 300 x 300 mm samples of each type partition and colour and finish on actual base metal.
- .2 Sample to show basic construction, door construction, hardware, and finishes.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00- Common Product Requirements .
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect specified materials from nicks, scratches, and blemishes .
 - .3 Replace defective or damaged materials with new.
- .4 Develop Waste Reduction Workplan related to Work of this Section and in accordance with Section 01 35 21- LEED Requirements .
- .5 Packaging Waste Management: remove for reuse and return of crates, as specified in Waste Reduction Workplan in accordance with Section 01 74 21- Construction/Demolition Waste Management and Disposal .

Part 2 Product

2.1 MATERIALS

- .1 Partition mesh: galvanized .
 - .1 Metal lath: 19 mm #10 (13 ga) rolled and flattened mesh with diamond openings no greater than 16 mm x 44 mm, 68% open.
 - .2 Galvanized steel sheet: commercial quality, to ASTM A653/ A653M with Z275 zinc coating.
- .2 Steel sections and plates: to CSA G40.20/G40.21, type 44W.
 - .1 Posts: hollow steel tubing, painted construction, designed to fasten to ceiling, minimum wall thickness 2 mm.
 - .2 Posts: 50 x 76 mm hollow steel tubing, minimum wall thickness 2 mm.
 - .3 Angle frame: 32 x 32 x 3 mm.
 - .4 Post caps: manufacturer's standard formed cap; finish to match other components.
- .3 Welding materials: to CSA W59.

- .4 Bolts, fasteners and fastening hardware: manufacturer's standard to suit design and application.

2.2 ACCESSORIES

- .1 Locksets: refer to Section 08 71 00- Door Hardware .

2.3 FABRICATION

- .1 Panels:
 - .1 Fabricate panels 2400 x 1200 mm and special sizes or shapes as required consisting of wire mesh welded at 100 mm on centre to angle frame.
 - .2 Mitre and weld frame corners.
 - .3 Provide 20 x 6 mm flat bars across panels at third points on 2400 mm dimension.
- .2 Posts:
 - .1 Full height to underside of slab with floor and ceiling plates for fixing.
 - .2 Include, wall, door and other posts to manufacturer's standard.
 - .3 Prepare post for electric strike.
- .3 Swing doors: standard doors:
 - .1 965 mm x 2134 mm.
 - .2 Construct doors and transom above of angle frame and wire mesh same as panels.
 - .3 Reinforce door with 40 x 5 mm or equivalent flat bar centre rail and 20 x 6 mm or equivalent flat bar bracing from centre rail to opposite corners on hinge side.
- .4 Swing door hardware:
 - .1 Equip doors with stops, keeper, provision for lockset .
 - .2 Equip standard doors with 1-1/2 pair of butts with non removable pins.

2.4 FINISHES

- .1 After fabrication, clean and paint components with manufacturer's standard primer and 2 coat enamel finish.
 - .1 Colour PT 2.
 - .2 Paint materials: in accordance with Section 09 91 23- Interior Painting .

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for wire mesh partitions installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative .
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative .

3.2 ERECTION

- .1 Install mesh enclosures and doors in accordance with manufacturer's printed instructions.
- .2 Erect enclosures plumb, level, straight, rigidly supported, and securely fastened to abutting surfaces, free from superimposed loads.
- .3 Fix to masonry and concrete using lag bolts and shields; to hollow walls using bolts and toggle type anchors; to steel supports with bolts in threaded holes or spot welds.
 - .1 Locate fasteners on interior side where possible for maximum security.
- .4 Install doors and adjust for proper closing, locking and smooth operation.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11- Cleaning .
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11- Cleaning .
- .3 Waste Management: separate waste materials for recycling in accordance with Section 01 74 21- Construction/Demolition Waste Management and Disposal .
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

END OF SECTION