

## PART 1 - GENERAL

### 1.1 RELATED REQUIREMENTS

- .1 Read and be governed by the conditions of the Contract and specifications of Division 01.
- .2 Section 07 92 00 joint sealing.
- .3 Section 09 91 99 painting for minor works.

### 1.2 REFERENCES

- .1 ASTM International
  - .1 ASTM A123/A123M-15, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - .2 ASTM A653/A653M-15e1, Standard Specification for Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process.
  - .3 ASTM D7803 - 12 Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating.
- .2 CSA Group
  - .1 CSA G40.20-13/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 Master Painters Institute (MPI)
  - .1 Architectural Painting Specification Manual - current edition.
    - .1 MPI #47, Alkyd, Interior, Semi-Gloss.
    - .2 MPI #76, Quick Dry Alkyd Metal Primer.
    - .3 MPI #81, Machinery Enamel.
    - .4 MPI #96, Quick Dry Enamel Gloss.
- .4 South Coast Air Quality Management District (SCAQMD)
  - .1 SCAQMD Rule 1113-16, Architectural Coatings.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 Submittals.
- .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 Indicate partition panel modules and types, materials, gauges, finishes, door and other openings, hardware, fastening methods to adjacent structure, ceiling details, and assembly methods.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 Common Product Requirements and with manufacturer's written instructions.
- .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 indoors in dry location 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.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- .1 Partition mesh: prefinished. RapidWire™ Welded Wire Partition Systems Are Modular, Stackable Partition Systems For Warehouses, Basements And Storage Areas.
  - .1 Welded steel wire panel: longitudinal wire size 10 gauge, transverse wire size 10 gauge, opening size 51 x 51 mm welded into 13 gauge rolled form angle frame on all four sides.
- .2 Steel sections and plates: to CSA G40.20/G40.21, type 44W.
  - .1 Posts: hollow steel tubing, square 51mm x 51mm mm, 14 gauge welded construction, designed to fasten to floors and ceiling minimum wall thickness 2 mm.
- .3 Welding materials: to CSA W59.
- .4 Bolts, fasteners and fastening hardware: manufacturer's standard to suit design and application.

#### 2.4 FABRICATION

- .1 Panels:
  - .1 Fabricate panels 2600 x 1000mm max 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 2600 mm ceiling high with floor and ceiling plates for fixing and post cap.
  - .2 Include corner, wall, door and other special posts to manufacturer's standard.
- .3 Post extensions:
  - .1 Length required to telescope 300 mm into post and extend posts to ceiling.
  - .2 Weld ceiling plate on upper end for fixing.
  - .3 Supply extension posts for every post and for corner post.

## 2.5 FINISHES

- .1 After fabrication, clean and paint components with manufacturer's standard primer and 2 coat enamel finish.
  - .1 Standard colour selected by Departmental Representative.
  - .2 Finish: to be pre-finished with manufacturers standard colour selected by Departmental Representative

## PART 3 - EXECUTION

### 3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

### 3.2 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.

### 3.3 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.

#### 3.4 CLEANING

.1 Progress Cleaning: clean in accordance with Section  
01 74 11.

.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.

.3 Waste Management: in accordance to 01 00 10, 01 74 10

## PART 1 - GENERAL

### 1.1 RELATED REQUIREMENTS

- .1 The requirements of Division 01 form part of this section.
- .2 Section 09 21 99 - Partitions for minor works.
- .3 Section 09 91 99 - Interior Painting.
- .4 Section 09 80 00 - Acoustic Treatment
- .5 Division 26 Electrical.

### 1.2 REFERENCES

- .1 ASTM International
  - .1 ASTM E84 Class A/1 fire characteristics.
  - .2 ASTM D7803 Standard Practice for preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating.
- .2 Steel Industry of North America (SSINA). Design Guidelines for the Selection and Use of Stainless Steel.
- .3 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
  - .1 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 Submittals.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for trolley rail guard and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Installation Drawings:
  - .1 Indicate on drawings large scale details, materials, finishes, dimensions, anchorage and assembly and anchorage for each type of substrate.
- .4 Samples:
  - .1 Submit duplicate 300 mm long samples of profiles and finish for trolley rail.

### 1.4 DELIVERY, STORAGE AND

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 Common Product Requirements

## HANDLING

and with manufacturer's written instructions.

- .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 indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect corner guards and low-level trolley rails from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Metal corner guards: .91mm thick, 75mm x 75 mm size, 915 mm long, type 304 satin polished stainless steel, with removable protective paper cover, flush, mechanically mounted.
- .2 Low level wall protection trolley rail guard:
  - Size: 38mm diameter tubular stainless steel.
  - Stock lengths: 3000mm
  - Mounting type: Floor mounted
  - Mounting brackets: Angular, 111mm high x 111mm from wall x 8mm thick with circular floor plate.

### 2.2 ACCESSORIES

- .1 Fasteners: stainless steel, concealed or recessed mounting as provided by manufacturer, for anchoring to concrete. Fasten through finish floor, do not cut finished floor around floor plate.
- .2 End Plugs: on ends not requiring change in direction. Interior and exterior corners: standard radiused sections as per manufacturer's standard radius. Indicate on shop drawings.
- .3 Adhesive: water resistant type as recommended by manufacturer for substrate.

### 2.3 FINISHES

- .1 Finish: all exposed surfaces of metal components to be stainless steel 304 satin polished designation for stainless steel finishes.

## PART 3 - EXECUTION

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| <u>3.1 EXAMINATION</u>                 | <ul style="list-style-type: none"><li>.1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for wall and corner guards installation in accordance with manufacturer's written instructions.<ul style="list-style-type: none"><li>.1 Visually inspect substrate in presence of Departmental Representative.</li><li>.2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.</li><li>.3 Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval to proceed from Departmental Representative.</li></ul></li></ul>   |
| <u>3.2 MANUFACTURER'S INSTRUCTIONS</u> | <ul style="list-style-type: none"><li>.1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.</li></ul>  |
| <u>3.3 INSTALLATION</u>                | <ul style="list-style-type: none"><li>.1 Install units on solid backing and erect with materials and components straight, tight and in alignment.</li><li>.2 Mechanically fasten wall trolley rail guards at manufactures maximum maximum recommended spacing on center. with top surface 111 mm above finish floor line, straight and level to variation plus or minus 3 mm over 3000 mm straight edge, non-cumulative.</li><li>.3 Mechanically fasten and adhere corner guards to substrate at 200mm on centre. Provide additional anchorage at ends of corner guards with stainless steel fasteners at 50mm max from edge.</li></ul>   |
| <u>3.4 CLEANING</u>                    | <ul style="list-style-type: none"><li>.1 Progress Cleaning: clean in accordance with Section 01 74 11 Cleaning.<ul style="list-style-type: none"><li>.1 Leave Work area clean at end of each day.</li></ul></li><li>.2 Perform cleaning after installation to remove construction and accumulated environmental dirt.</li><li>.3 Clean surfaces after installation using manufacturer's written recommended cleaning procedures.</li><li>.4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.</li><li>.5 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 Cleaning.</li></ul> |

- .6 Waste Management: in accordance with Section 01 00 00, 01 74 20

### 3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by corner guard and trolley rail guards installation.