Partie 1 General

1.1 RELATED REQUIREMENTS

.1 The list of Work in this division is indicative but non-limiting. It does not exclude Work described in other specification divisions shown on the drawings or required for full execution of the Work as intended on the drawings.

.2	Section 03 30 00	Cast-in-place Concrete.
.3	Section 04 22 00	Concrete Unit Masonry.
.4	Section 05 50 00	Metal Fabrications.
.5	Section 07 44 56	Mineral Fiber Reinforced Cementitious Panels.
.6	Section 07 92 00	Joint Sealants.
.7	Section 08 11 00	Metal Doors and Frames.
.8	Section 08 11 16	Aluminum Doors and Frames.
.9	Section 08 36 12	Sectional Metal Doors.
.10	Section 09 21 16	Gypsum Board Assemblies.
.11	Section 09 91 23	Exterior Painting.

1.2 REFERENCES

.1 American Society for Testing and Materials International (ASTM)

- .1 ASTM A653/A653M-[01a], Standard Specification for Steel Sheet, Zinc-Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

.2 Canadian General Standards Board (CGSB)

- .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
- .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
- .3 CAN/CGSB-1.104-M91, Semigloss Alkyd, Air Drying and Baking Enamel.

.3 Canadian Standards Association (CSA)/CSA International

- .1 CSA-G40.20-F04/G40.21-F02, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
- .2 CAN/CSA-G164-FM92(C2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 CSA W59-F03, Welded Steel Construction (Metal Arc Welding).

.4 Green Seal Environmental Standards

- .1 Standard GC-03-93, Anti-Corrosive Paints.
- .2 Standard GS-11-97, Architectural Paints.

.5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)

.1 Material Safety Data Sheets (MSDS).

.6 South Coast Air Quality Management District (SCAQMD), California State

.1 SCAQMD Rule 1113-04, Architectural Coatings.

.7 The Master Painters Institute (MPI)

.1 Architectural Painting Specification Manual - February 2004.

.1 MPI No. 76, Quick Dry Alkyd Metal Primer.

.2 MPI No. 81, Machinery Enamel.

.3 MPI No. 96, Quick Dry Enamel Gloss.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:

.1 Submit manufacturer's printed product literature for wire mesh partitions or components, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.

.2 Submit two copies WHMIS MSDS - Material Safety Data Sheets in accordance with Section 02 81 01 - Hazardous Materials.

.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.

.3 Erect trial assembly of at least two modules of partition, on site where directed by Departmental Representative.

.5 Sustainable Design Submittals:

.6 Quality control submittals: submit following in accordance with Section 01 45 00 - Quality Control.

.1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, and cleaning procedures.

.2 Manufacturer's Field Reports: submit manufacturer's written reports within 3 days of review, verifying compliance of Work, as described in PART 3 - FIELD QUALITY CONTROL.

1.4 QUALITY ASSURANCE

.1 Mock-ups:

.1 Construct mock-ups in accordance with Section 01 45 00 - Quality Control.

.2 Erect one of each type door and two of each type partition panel.

.3 Allow 24 hours for inspection of mock-up by Departmental Representative before proceeding with work.

.4 When accepted, mock-up will demonstrate minimum standard for this work.

.5 Mock-up may remain as part of finished work.

.2 Pre-Installation Meetings: convene pre-installation meeting one week prior to beginning on-site installation, with Departmental Representative Section 01 32 16.07 - Construction Progress Schedule - Bar (GANTT) Chart to:

.1 Verify project requirements.

.2 Review installation and substrate conditions.

.3 Co-ordination with other building subtrades.

.4 Review manufacturer's installation instructions and warranty requirements.

1.5 DELIVERY, STORAGE AND HANDLING

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

.2 Waste Management and Disposal:

.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.6 ACCEPTABLE PRODUCTS AND MATERIALS

.1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 MATERIALS

.1 Partition mesh: painted:

.1 Welded steel wire fabric: painted, opening size 50 mm x 50 mm, 3.5 mm diameter, welded edges.

.2 Steel sections and plates: to CAN/CSA-G40.20, type 44W.

.1 Posts: hollow steel tubing, square 50 mm x 50 mm, galvanized, bolted, designed to fasten to floors and walls, minimum wall thickness 2 mm.

.2 Extension posts: 38 mm x 38 mm hollow steel tubing, minimum wall thickness 1.6 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 Boulons, attaches et dispositifs de fixation : de fabrication courante, convenant aux caractéristiques de conception et d'installation.

2.2 ACCESSOIRES

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

2.3 FABRICATION

.1 Panels:

.1 Fabricate panels 2400 x 1200 mm and special sizes or shapes as required, consisting of wire mesh as indicated, 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 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 where indicated.

.4 Swing doors: standard doors:

.1 900 x 2100 mm.

.2 Construct doors and transom above of angle frame, and wire mesh.

.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.

.5 Swing door hardware:

.1 Equip doors with stops, keeper and hasp for padlock.

.2 Equip standard doors with 1-1/2 pair of butts.

.6 Sliding doors:

.1 Total opening: 3660 mm wide x 3050 mm high.

.2 Construct of angle frame mesh, same as panels.

.3 Reinforce corners and at intermediate points horizontally and vertically, reinforced with welded 38 mm x 38 mm x 2 mm square tube.

.4 Equip sliding doors with:

.1 Box type sliding door track, 135 kg capacity, fabricated from 1.6 mm thick galvanized steel.

.2 Supply 3 hanger/trolleys per door.

.3 Door guides, door stops, keeper, hasp for padlock.

2.4 FINISH

.1 After fabrication, clean and paint components with manufacturer's standard primer and 2 coat enamel finish.

.1 Standard grey colour selected by Departmental Representative.

Partie 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 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.

.1 Mount sliding doors on exterior side of enclosed area.

3.3 FIELD QUALITY CONTROL

.1 Manufacturer's Field Services:

.1 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

3.4 CLEANING

.1 Proceed in accordance with Section 01 74 11 - Cleaning.

.2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION