

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        Section 06 10 00.01 - Rough Carpentry.
- .2        Section 07 92 00 - Joint Sealants.
- .3        Section 08 71 00 - Door Hardware.
- .4        Section 08 80 50 – Glazing.

**1.2                REFERENCES**

- .1        Aluminum Association (AA)
  - .1        AA DAF45-R03, Designation System for Aluminum Finishes, 9th Edition.
- .2        ASTM International
  - .1        ASTM A653/A653M-11, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .2        ASTM C1396/C1396M-11, Standard Specification for Gypsum Board.
  - .3        ASTM C645-11a, Standard Specification for Nonstructural Steel Framing Members.
  - .4        ASTM E90-09, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- .3        CSA International
  - .1        CAN/CSA-Z809-08, Sustainable Forest Management.
- .4        Forest Stewardship Council (FSC)
  - .1        FSC-STD-01-001-2004, FSC Principle and Criteria for Forest Stewardship.
- .5        Sustainable Forestry Initiative (SFI)
  - .1        SFI-2010-2014 Standard.
- .6        The Master Painters Institute (MPI)
  - .1        Architectural Painting Specification Manual - current edition.
- .7        Underwriters Laboratories of Canada (ULC)
  - .1        CAN/ULC-S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- .8        United Nations Environment Programme (UNEP)/UNEP World Conservation Monitoring Centre (WCMC) - 2000
  - .1        Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) - 1973-(A1979).

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

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

- .2 Product Data:
  - .1 Submit manufacturer's printed product literature and data sheets for demountable partitions and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Test Reports:
  - .1 Submit test reports in accordance with Section 01 45 00 - Quality Control, from approved independent testing laboratory, certifying partition system complies with sound transmission rating, as specified.

#### **1.4 QUALITY ASSURANCE**

- .1 Not used.

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements 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 off ground, indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect stud type demountable partitions from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

#### **1.6 ACCEPTABLE MATERIALS OR PRODUCTS**

- .1 Where materials are specified by trade name refer to the “Instructions to Tenderers” for a procedure to be followed in applying for approval of alternatives.

#### **1.7 WARRANTY**

- .1 For the work of this Section 10 22 19.01, the 12 month warranty period is extended to ten (10) years.

### **Part 2 Products**

#### **2.1 SYSTEM DESCRIPTION**

- .1 Basic system to be ceiling and rail height partitions, removable, from single manufacturer, consisting of an extruded aluminum frame and insulating glass units (double glazing with spacers).
- .2 Acceptable products :
  - .1 Altos by Tecknion;

- .2 Mimo by Muraflex;
- .3 or replacement product approved by addendum according to Instructions to bidders.

## 2.2 DESIGN REQUIREMENTS

- .1 Partition assembly: fully demountable and relocatable, extend in four directions without disturbing other panels, accommodate floor/ceiling height variations of 25 mm.
- .2 Components: distortion free, uniform in dimension, construction and appearance, made to suit specific function and have been proven in use.
- .3 Partition heights:
  - .1 Ceiling height: 3 000 mm.
  - .2 Rail height: 800 mm.
- .4 Partition module: 850 to 1050 mm, see drawings.
- .5 Minimum sound transmission rating of installed panel partition: STC 38, tested to ASTM E90.

## 2.3 MATERIALS

- .1 Extruded aluminum type demountable partition.
- .2 Aluminum extrusions: Aluminum Association alloy AA6063-T5.
- .3 Acoustical sealant: type recommended by partition manufacturer to achieve STC rating specified.
- .4 Sound/light seal: self adhesive closed cell, inorganic, permanently elastic, sponge type stripping, 12 x 12 mm size, black.
- .5 Glass and glazing materials: in accordance with Section 08 80 50 - Glazing.
  - .1 Clear glass: tempered 6mm.
  - .2 Glazing material: furnish neoprene glazing gaskets for setting glass.
- .6 Accessories: miscellaneous trim, bracing, fasteners, clips, and other accessories for installation as recommended by partition manufacturer.

## 2.4 COMPONENTS

- .1 Glazing frames: extruded aluminum fastened to lateral, superior and inferior profiles, for double glazed units with neoprene strips, concealed behind the glass. No visible moulding or aluminum extrusion allowed at vertical junction between glazed panels. See elevations on drawings.
- .2 Door frames: extruded aluminum for doors as indicated on schedule, with fixed stops.
  - .1 Prepare for hardware specified in Section 08 71 00 - Door Hardware, with cutouts and [extruded aluminum continuous filler strips on jambs and head, cutout to receive hardware 5 mm aluminum reinforcing.
- .3 Partition top and bottom rail: extruded aluminum recessed cap.

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## **2.5 FINISHES**

- .1 Aluminum surfaces (all components including doors):
  - .1 Finish exposed surfaces of aluminum components to AA DAF45.
    - .1 Clear anodic finish: designation AA- A21.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify conditions of substrates and surfaces to receive stud type demountable partitions previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.

### **3.2 ERECTION**

- .1 Install partition after floor finishes, in accordance with manufacturer's instructions.
- .2 Fasten runners to floors, ceiling and abutting vertical surfaces at 600 mm on centre.
  - .1 At ceilings use fasteners that rigidly support partition without damaging or defacing ceiling panels or grid system members.
- .3 Erect partitions, plumb, square and level.
  - .1 Accurately fit and fasten to abutting surfaces.
  - .2 Shim under partitions at uneven floors to ensure level installation.
- .4 Install continuous light/sound seal at junction of ceiling height partitions with floors, ceilings and vertical surfaces to correspond with tested assembly.
  - .1 Install sealant in accordance with Section 07 92 00 - Joint Sealants.
  - .2 Install glass in accordance with Section 08 80 50 - Glazing.

### **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.

**END OF SECTION**

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**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1            Section 06 10 00 - Rough Carpentry.
- .2            Section 09 21 16 - Gypsum Board Assemblies.

**1.2                REFERENCES**

- .1            Aluminum Association (AA)
  - .1            AA DAF 45-03(R2009), Designation System for Aluminum Finishes.

**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 wall and corner guards 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.
- .4            Samples:
  - .1            Submit samples of colours for selection.

**Part 2            Products**

**2.1                MATERIALS**

- .1            Metal corner guards:  $\pm 1.2$  mm thick (16 gage), 50 x 50 mm size, 1220 mm long, with 3.2 mm corner radius type 304 satin finished stainless steel, with removable protective paper cover, surface, adhesive mounted.

**2.2                ACCESSORIES**

- .1            Adhesive: water resistant type as recommended by manufacturer for substrate.

**Part 3            Execution**

**3.1                MANUFACTURER'S INSTRUCTIONS**

- .1            Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

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**3.2           INSTALLATION**

- .1       Install units on solid backing and erect with materials and components straight, tight and in alignment.

**3.3           CLEANING**

- .1       Clean surfaces after installation using manufacturer's written recommended cleaning procedures.
- .2       Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .3       Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

**3.4           PROTECTION**

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

**END OF SECTION**