

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 07 92 00 – Joint sealants
- .2 Section 08 80 00 – Glazing

1.2 REFERENCE STANDARDS

- .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-F08, 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 Samples:
 - .1 Submit duplicate 200 x 300 mm samples of panel colours, textures and finishes and 300 mm long samples of trim options for colour selection by Departmental Representative.
 - .2 Submit sample of ceiling fixing device.
- .4 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.
- .5 Shop Drawings:
 - .1 Shop drawings must be submitted for review. The drawings will include details of construction, assembly, profiles and anchors and other related details, as well as finishes. When installing the removable walls, these drawings may be followed by the installer. However, some dimensions (height and length of parts) may vary during installation, in order to adapt appropriately to the physical environment of the work site.

1.4 SCOPE OF WORK

- .1 Work includes all labor, materials, shop related work, tools, equipment and all services required for manufacture, supply and complete installation, for use in any security, erectable and removable walls, doors and hardware, as indicated on the drawings and as specified in this section of the specifications.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section with manufacturer's written instructions and 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, indoors, in dry location 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 by manufacturer packaging materials as specified in 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.6 INSTALLER

- .1 Removable walls must be installed by an installer authorized by Société Partitions Manufacturers Associés, P.M.A. Inc. ("PMA"), manufacturers and sole owner of the concept. The work of the installer must be carried out in accordance with the standards, laws and regulations applicable at the date of execution.

1.7 WARRANTY AND DISCLAIMER

- .1 Work described in this section of the specifications must be guaranteed in writing against defects in material and workmanship for a period of two 2 years from the completion of work. Aluminum frame guaranteed 10 years.

Part 2 Products

2.1 SYSTEM DESCRIPTION

- .1 The system consists essentially of full-height partitions, from a single manufacturer, consisting of a metal frame covered on both sides with glazing, solid panels and whiteboards. Refer to architectural plans for typical elevations.

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 Full height partitions: Refer to architectural plans for the height of partitions.
- .4 Sound transmission index (ITS) of installed partitions: at least 41, according to the tests defined in ASTM E 90.
- .5 Partition system: accommodate electrical and telephone.

2.3 MATERIALS

- .1 Stud type demountable partition.
- .2 Stud framing: ASTM C645, 78 mm stud size, designed and prepared for removable attachment of facing sheets. The finishing cap must be independently dismountable on each side of the partitions.
- .3 Acoustical sealant: type recommended by partition manufacturer to achieve STC rating specified.
- .4 All profiles including finishing cap, door frames, structural studs and top plates must be made of extruded aluminum alloy AA6063-T5 or AA6060-T5, straight and free from surface defects and classified as 'GREEN' aluminum. Low Carbon Footprint (Aluminum manufactured and extruded in Canada only). The internal frame must be tubular and allow a high installation up to 6 m (20 '). All exposed surfaces must be painted in the manufacturer's standard color or the departmental representative's choice.

- .5 Locks, hinges, latches, doorstops and door closers shall be performed by this section only. Doors must be prepared to receive the specified hardware. Door hinges or hinges shall be reversible.
- .6 Glass and glazing materials: in accordance with Section 08 80 50 - Glazing.
 - .1 Glass: laminated double thickness of 8mm
 - .2 Assembly: Glued glass edge to edge
 - .3 Glazing materials: neoprene inserts for securing windows.
- .7 Accessories: miscellaneous trim, bracing, fasteners, clips, and other accessories for installation as recommended by partition manufacturer
- .8 Aluminum extrusions: Aluminum Association alloy AA6063-T5.
- .9 Galvanized steel sheet: furniture grade to ASTM A653/A653M with Z275 zinc coating.
- .10 Opaque panels
 - .1 DuraWall foil-coated panels, with IGI environmental certificate according to EN 233: 1999, EN234: 1996, EN 259-1: 2001 and EN 266: 1991 and ANSI-A208.1-93 standard M-3, thickness of 12 mm, width of 1.22 m to 1.52 m) in height from 82.44m to 3.65 m or equivalent approved by PMA
 - .2 All other types of commercial filling can be used. These opaque fillings must have a finished thickness of 6 to 13 mm: ex: ceramic, concrete panels, plywood floor, marble plate, aluminum sheets or steel etc.
 - .3 Whiteboard of dimensions as mentioned in architectural plans.

2.4 COMPONENTS

- .1 Doors and framing shall be executed by this section only.
- .2 Square framing is in aluminum finished to the designer's choice with phonic sound on the periphery. They will have to be executed with the hinges adjustable and reversible so as to allow the installation of the opening doors indifferently on the right or on the left. They must allow, without modification or disassembly (with the exception of the sound seal), the installation of glass doors.
- .3 Full-height "Clair" glass doors with a minimum thickness of 10 mm and special hinges suitable for door framing.
- .4 Door frames: extruded aluminum
 - .1 Door frames prepared to receive hardware specified in this section.
- .5 Hardware
 - .1 Refer to section 08 71 00 - hardware

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 all components as specified in the manufacturer's drawings, specifications and details. Accurately follow manufacturer's instructions and recommendations regarding installation sequence and details.
- .2 Install partition after floor finishes, in accordance with manufacturer's instructions.
- .3 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.
- .4 Install door frames and all hinges (3 pairs of hinges per 914 mm x 2134 mm standard door) and install doors as indicated on plans and door slip. Doors must open gently without undue loose play or friction. Panels should be free from any noticeable jarring when doors are slammed.
- .5 Install insulation in all spaces between studs and solid panels to ensure continuity of sound insulation.
- .6 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.
- .7 Install continuous light/sound seal at junction of ceiling height partitions with floors, ceilings and vertical surfaces.
- .8 Install acoustical sealant and the insulation in sound rated partitions to correspond with tested assembly.
 - .1 Install panels in accordance with manufacturer's printed instructions. Apply panels full height floor to ceiling.
 - .2 Cover panel joints with one piece, fullheight battens
 - .3 Install sealant in accordance with Section 07 92 00 - Joint Sealants.
 - .4 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.

END OF SECTION