

Part 1 General**1.1 RELATED REQUIREMENTS**

- .1 Section 05 50 00 - Metal Fabrications.
- .2 Section 06 10 00 – Rough Carpentry.
- .3 Section 07 21 16 - Blanket Insulation.
- .4 Section 07 26 00 - Vapour retarders and air barrier.
- .5 Section 07 92 00 - Joint Sealing.
- .6 Section 09 21 16 - Gypsum Board Assemblies.

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM C645-14 e1, Standard Specification for Nonstructural Steel Framing Members.
 - .2 ASTM C754-15, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
 - .3 ASTM D1056-14, Standard Specification for Flexible Cellular Materials—Sponge or Expanded Rubber.
- .2 Underwriters' Laboratory of Canada (ULC)
 - .1 CAN/ULC-S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- .3 The National Association of Architectural Metal Manufacturers:
 - .1 EMMA 557-99, Standards for Expanded Metal.
- .4 Environmental Choice Program (ECP)
 - .1 CCD-047, Architectural Surface Coatings.
 - .2 CCD-048, Surface Coatings - Recycled Water-Borne.
- .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .6 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual – Current edition.
 - .1 MPI #26, Primer, Galvanized Metal, Cementitious.
- .7 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 - Submittal Procedures.
- .2 Product Data:

- .1 Submit manufacturer's instructions, printed product literature and data sheets for metal framing and include product characteristics, performance criteria, physical size, finish and limitations.

1.4 QUALITY ASSURANCE

- .1 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

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 in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect metal framing from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

Part 2 Products

2.1 MATERIALS

- .1 Non-load bearing channel stud framing: 41, 64, 92 and 152 mm stud size to ASTM C 645 and CAN/ULC-S102, roll formed from 0.53, 0.91 and 1.20 mm thickness hot dipped galvanized steel sheet, for screw attachment of gypsum, designed for knock-out service holes at 460 mm centres.
 - .1 Interior metal framing:
 - .1 Partition up to 3 600mm: 0.53mm min. thickness.
 - .2 Partition up to 4 800mm: 0.91mm min. thickness.
 - .3 Partition up to 6 000mm: 1.20mm min. thickness.
 - .2 Jamb of interior apertures: 32 mm high.
- .2 Floor and ceiling tracks: to ASTM C645, in widths to suit stud sizes, of the following heights:
 - .1 Standard interior metal framing: 32 mm high.
 - .2 Jamb of interior apertures: 32 mm high.
- .3 Floor tracks: steel sheet, minimum thickness as prescribed according to type of partition, dimensions to fit those of columns, pressure-type, shaped to hold columns securely in place at 50 mm intervals.
- .4 Ceiling tracks: in sections of dimensions to fit those of columns, minimum thickness as prescribed according to type of partition, for assembly with saddles and doubled binding wires, 1.2 mm in diameter.

- .5 Galvanized steel furring units 19 mm thick, anchors and fasteners, to ASTM C841.
- .6 Metal channel stiffener: width of studs x 50 mm, 1.4 mm thick cold rolled steel, coated with rust inhibitive coating.
- .7 Acoustical sealant: to Section 07 92 10 – Joint Sealant.
- .8 Insulating strip: rubberized, moisture resistant 3 mm thick closed cell neoprene/ EPDM /SBR, to ASTM D1056, Class SCE-41-2C1, 19 mm wide, one face self-adhering, length as required.
- .9 Compressible polystyrene foam, 6 mm thick, in rolls, width to suit metal framing.
- .10 Acoustic insulation: to Section 07 21 16 – Blanket insulation.

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 non-structural metal framing application 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.

3.2 ERECTION OF STANDARD PARTITIONS

- .1 Align partition tracks at floor and ceiling and secure at 600 mm on centre maximum.
- .2 Install damp proof course under stud shoe tracks of partitions on slabs on grade.
- .3 Place studs vertically at 400 mm on centre and not more than 50 mm from abutting walls, and at each side of openings and corners.
 - .1 Position studs in tracks at floor and ceiling. Cross brace steel studs as required to provide rigid installation to manufacturer's instructions.
- .4 Erect metal studding to tolerance of 1:1000.
- .5 Attach studs to bottom ceiling track using screws crimp method pop rivets.
- .6 Co-ordinate simultaneous erection of studs with installation of service lines. When erecting studs ensure web openings are aligned.
- .7 Co-ordinate erection of studs with installation of door/window frames and special supports or anchorage for work specified in other Sections.
- .8 Provide two studs extending from floor to ceiling at each side of openings wider than stud centres specified.
 - .1 Secure studs together, 50 mm apart using column clips or other approved means of fastening placed alongside frame anchor clips.
- .9 Install heavy gauge single jamb studs at openings.

- .10 Erect track at head of door/window openings and sills of sidelight/window openings to accommodate intermediate studs.
 - .1 Secure track to studs at each end, in accordance with manufacturer's instructions.
 - .2 Install intermediate studs above and below openings in same manner and spacing as wall studs.
- .11 Frame openings and around built-in equipment, cabinets, access panels, on four sides. Extend framing into reveals. Check clearances with equipment suppliers.
- .12 Provide 40 mm stud or furring channel secured between studs for attachment of fixtures behind lavatory basins, toilet and bathroom accessories, and other fixtures including grab bars and towel rails, attached to steel stud partitions.
- .13 Install steel studs or furring channel between studs for attaching electrical and other boxes.
- .14 Extend partitions to ceiling height except where noted otherwise on drawings.
- .15 Maintain clearance under beams and structural slabs to avoid transmission of structural loads to studs.
 - .1 Use 50 mm leg ceiling tracks. Use double track slip joint as indicated.
- .16 Install continuous insulating strips to isolate studs from uninsulated surfaces.
- .17 Install two continuous beads of acoustical sealant insulating strip under studs and tracks around perimeter of sound control partitions.

3.3 INSTALLING INSULATION

- .1 Install insulation so as to ensure continuous acoustic protection at places indicated.
- .2 Carefully adjust insulation on units to be covered as well as around electrical boxes, pipes, air ducts and frames that pass through it.
- .3 Do not compress insulation to fit spaces to be insulated.
- .4 Do not cover insulation before installation work has been inspected and approved by Departmental Representative.

3.4 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.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by non-structural metal framing application.

END OF SECTION