

**Part 1 General**

**1.1 RELATED SECTIONS**

- .1 Division 1
- .2 Section 07 92 10 - Joint Sealants
- .3 Section 09 21 16 - Gypsum Board Assemblies

**1.2 REFERENCES**

- .1 American Society for Testing and Materials International, (ASTM).
  - .1 ASTM C645, Standard Specification for Non-structural Steel Framing Members.
  - .2 ASTM C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- .2 Canadian General Standards Board (CGSB).
  - .1 CAN/CGSB-1.40, Primer, Structural Steel, Oil Alkyd Type.
- .3 Environmental Choice Program (ECP).
  - .1 CCD-047, Paints - Architectural Surface Coatings.
  - .2 CCD-048, Surface Coatings - Recycled Water-borne.

**1.3 DESIGN CRITERIA**

- .1 Provide and pay for structural Engineering and design for the following:
  - .1 Suspension systems for gypsum bulkheads.

**1.4 QUALITY ASSURANCE**

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

**1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Contract Conditions.
  - .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
  - .3 Collect and separate for disposal paper, plastic, polystyrene, and corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with applicable provincial and municipal regulations.
  - .4 Divert unused metal materials from landfill to metal recycling facility approved by applicable provincial and municipal regulations.
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- .5 Divert unused gypsum materials from landfill to recycling facility approved by applicable provincial and municipal regulations.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Non-load bearing channel stud framing: to ASTM C645, 64, 92 and 152 mm stud size, roll formed from hot dipped galvanized steel sheet, for screw attachment of gypsum board. Knock-out service holes at 460 mm centres. The gauge of the Steel stud framing is to be sized to suit each site condition.
- .2 Floor and ceiling tracks: to ASTM C645, in widths to suit stud sizes, 32 mm flange height.
- .3 Chase wall "CH" studs: to ASTM C 645; 41 and 64mm sizes.
- .4 Special shape studs "I" studs: to ASTM C 645; 64mm sizes.
- .5 Metal channel stiffener: 38 mm size, 1.4 mm thick cold rolled steel, coated with rust inhibitive coating.
- .6 Acoustical sealant: to Section 07 92 0 - Joint Sealants.
- .7 Insulating strip: rubberized, moisture resistant 3 mm thick cork or foam strip, 12 mm wide, with self-sticking adhesive on one face, lengths as required.

## **Part 3 Execution**

### **3.1 ERECTION**

- .1 Align partition tracks at floor and ceiling and secure at 600mm on centre maximum.
- .2 Install damp proof course under stud shoe tracks of partitions on slabs on grade.
- .3 Place studs vertically at 600 mm on centre and not more than 50 mm from abutting walls, and at each side of openings and corners. 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 and ceiling track using screws.
- .6 Coordinate simultaneous erection of studs with installation of service lines. When erecting studs ensure web openings are aligned.
- .7 Coordinate 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. 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. Secure track to studs at each end, in accordance with manufacturer's instructions. 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. Use 50mm leg ceiling tracks.
- .16 Install continuous insulating strips to isolate studs from un-insulated surfaces.
- .17 Install two continuous beads of acoustical sealant under studs and tracks around perimeter of sound control partitions.

### 3.2 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

### 3.3 STRUCTURAL CERTIFICATION

- .1 Upon completion of work, provide a certificate for work identified in item 1.3 that shall state that the work has been performed in accordance with the requirements of the OBC and regulations of Authorities in Jurisdiction. The certificate shall bear the seal of a qualified Structural Engineer who is licenced in the province of Ontario.

END OF SECTION