

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 09 21 16 - Gypsum Board Assemblies.

1.2 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM C645-11a, Standard Specification for Non-structural Steel Framing Members.
 - .2 ASTM C754-11, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-1.40-97, Anticorrosive, Structural Steel, Alkyd Primer.
 - .2 CAN/CGSB-19.21-M87, Sealing and Bedding Compound, Acoustical.

1.3 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.

Part 2 Products**2.1 MATERIALS**

- .1 Non-load bearing channel stud framing: to ASTM C645, stud size to suit existing wall thickness. Allow for 64mm, 89mm, or 152mm where indicated, roll formed from 0.836 mm thickness hot dipped galvanized steel sheet, for screw attachment of gypsum board. Knock-out service holes at 460 mm centres. Note: where required and height of floor to slab requires use heavier gauge studs & size to suite.
- .2 Non-load bearing "C-H" stud framing to ASTM C645, stud size as indicated in drawings. Allow for 102mm, 0.836mm thickness hot dipped galvanized steel, for screw attachment of gypsum board. Knock-out service holes at 460 mm centres. Note: where required and height of floor to slab requires use heavier gauge studs & size to suite.
- .3 Non-load bearing channel stud framing: to ASTM C645, stud size as indicated in drawings. Allow for 102mm, roll formed from 0.836 mm thickness hot dipped galvanized steel sheet, for screw attachment of gypsum board. Knock-out service holes at 460 mm centres. Note: where required and height of floor to slab requires use heavier gauge studs & size to suite.

- .4 Top and bottom tracks: to ASTM C645, in widths to suit stud sizes, 32 mm flange height, provide deflection tracks where indicated in drawings with a longer flange allowance for a minimum of 50mm deflection
- .5 Metal channel stiffener: size to suit, 1.4 mm thick cold rolled steel, coated with rust inhibitive coating.
- .6 Acoustical sealant: to CAN/CGSB-19.21.

Part 3 Execution

3.1 ERECTION

- .1 Align partition tracks at top and bottom and secure at 300 mm on centre maximum.
- .2 Place studs vertically at 400 mm on centre and not more than 50mm from abutting walls, and at each side of openings and corners. Position studs in tracks at top and bottom. Cross brace steel studs as required to provide rigid installation to manufacturer's instructions.
- .3 Erect metal studding to tolerance of 1:1000.
- .4 Attach studs to top track using screws and flex clips.
- .5 Co-ordinate simultaneous erection of studs with installation of service lines. When erecting studs ensure web openings are aligned.
- .6 Co-ordinate erection of studs with installation of door frames and special supports or anchorage for work specified in other Sections.
- .7 Provide two studs extending from floor to ceiling at each side of openings wider than stud centres specified. Secure studs together, 50mm apart using column clips or other approved means of fastening placed alongside frame anchor clips.
- .8 Install heavy gauge single jamb studs at openings.
- .9 Erect track at head of door openings to accommodate intermediate studs. Secure track to studs at each end, in accordance with manufacturer's instructions. Install intermediate studs above openings in same manner and spacing as wall studs.
- .10 Frame openings and around built-in equipment, cabinets, access panels, on four sides. Extend framing into reveals. Check clearances with equipment suppliers.
- .11 Provide 40mm stud or furring channel secured between studs for attachment of fixtures. .
- .12 Install steel studs or furring channel between studs for attaching electrical and other boxes.
- .13 Extend partitions to heights indicated on drawings.
- .14 Maintain clearance under beams and structural slabs to avoid transmission of structural loads to studs. Use double track slip joint.
- .15 Install two continuous beads of acoustical sealant under studs and tracks around perimeter of sound control partitions.
- .16 Secure and add 19mm fire retardant plywood complete with fire retardant paint and blocking between studs at locations of wall mounted equipment. Coordinate with Departmental Representative.

3.2 CLEANING

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

END OF SECTION