
Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 09 84 33 - Acoustical Wall Panels: For panel installation to steel studs.

1.2 REFERENCE STANDARDS

- .1 ASTM
 - .1 ASTM C645-18, Standard Specification for Nonstructural Steel Framing Members.
 - .2 ASTM A653/A653-17, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process¹
 - .3 ASTM C754-11, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- .2 The Association of Wall and Ceiling Contractors of British Columbia (AWCC)
 - .1 Wall and Ceiling Specification Standards Manual.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop drawings:
 - .1 Indicate sizes and dimensions, components, materials and finish, metal gauges and thickness, fastening details, compliance with design criteria and requirements of related work.
 - .2 Indicate arrangement of steel studs including joints, fasteners and special shapes.
 - .3 Submit shop drawings bearing stamp and signature of qualified professional engineer registered or licensed in Province of Manitoba, Canada.

1.4 QUALITY ASSURANCE

- .1 Acoustic Wall Panel Assembly:
 - .1 Coordinate steel stud framing requirements with Section 09 84 33.
- .2 Mock-up
 - .1 Coordinate full scale acoustic wall panel assembly screen mock up as indicated in Section 09 84 33.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Comply with Section 01 74 21 - Construction/Demolition Waste Management and Disposal, and Waste Reduction Work Plan.

Part 2 Products

2.1 MATERIALS

- .1 Steel sheet components to: ASTM C645.
- .2 Steel for non-loadbearing members roll formed from hot dipped galvanized steel sheet to ASTM A653 with minimum metallic coating weight of Z275 designation coating, regular

spangle surface, to accept preformed acoustic wall panels with structural attachment to building substrate

- .3 Base Metal Thickness: Minimum 0.84 mm (20 gauge), or as determined by professional engineer.
- .4 Stud Widths: 64 mm, 92 mm or 152 mm as indicated on the drawings.

2.2 DESIGN REQUIREMENTS

- .1 Design sheet stud framing system to provide for thermal movement of component materials caused by ambient temperature range of 20°C to 35°C without causing buckling, undue stress on fasteners or other detrimental effects.
- .2 Design members to withstand dead loads of acoustical wall panels.

Part 3 Execution

3.1 ERECTION

- .1 Install non-loadbearing interior wall framing to ASTM C754 and AWCC Wall and Ceiling Specification Standards Manual.
- .2 Erect metal studding to tolerance of 1:1000.
- .3 Align studs at maximum 600 mm on centre.
- .4 Install continuous insulating strips to isolate studs from non-insulated surfaces.
- .5 Place studs vertically at 400 mm on centre, except where indicated otherwise, and not more than 50 mm from abutting walls, and at each side of openings and corners.
- .6 Extend studs to underside of structure, floor or roof decks, except where indicated otherwise.
- .7 Coordinate simultaneous erection of studs with installation of service lines where indicated. When erecting studs ensure web openings are aligned.
- .8 Coordinate erection of studs with installation of special supports or anchorage for work specified in other Sections.
- .9 Provide two 0.84 mm (20 gauge) jamb studs at door, window and other openings. Extend jamb studs full height of partition.
- .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 Cross brace steel studs as required to provide rigid installation to manufacturer's instructions.

3.2 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

3.3 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