

## **1 General**

### **1.1 REFERENCES**

- .1 American Society for Testing and Materials International (ASTM)
  - .1 ASTM C36/C36M-01, Specification for Gypsum Wallboard.
  - .2 ASTM C475-01, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
  - .3 ASTM C645-00, Specification for Nonstructural Steel Framing Members.
  - .4 ASTM C754-00, Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
  - .5 ASTM C840-01, Specification for Application and Finishing of Gypsum Board.
  - .6 ASTM C1002-01, Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
  - .7 ASTM C1047-99, Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base. ASTM C1178/C1178M-01.
- .2 Underwriters' Laboratories of Canada (ULC)
  - .1 CAN/ULC-S102-1988(R2000), Surface Burning Characteristics of Building Materials and Assemblies.

### **1.2 SUBMITTALS**

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for sealants.
- .3 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 and/or fire-resistance rating as specified.

### **1.3 STORAGE AND HANDLING**

- .1 Store materials inside, level, under cover. Protect from weather, damage from construction operations and other causes, in accordance with manufacturer's printed instructions.
- .2 Handle materials to prevent damage to edges or surfaces. Protect metal accessories and trim from being bent or damaged.

### **1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Collect and separate for disposal waste material generated by this Section.
- .2 Place in appropriate on-site bins in accordance with Waste Management Plan.
- .3 A clean worksite is mandatory at all times. Failure to maintain the site in a clean, safe condition shall result in the Departmental Representative initiating a clean-up and related costs being deducted from progress claims.

## **2 Products**

### **2.1 GYPSUM BOARD**

- .1 Standard board: to ASTM C36/C36M regular, 15.9 mm thick, 1200 mm wide x maximum practical length, ends square cut, edges tapered. Fire rated where indicated.
  - .2 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
  - .3 Steel drill screws: to ASTM C1002.
  - .4 Casing beads, corner beads, control joints and edge trim: to ASTM C1047, ABS, 0.5 mm base thickness, perforated flanges, one piece length per location.
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- .1 Joint compound: to ASTM C475, asbestos-free.

### **3 Execution**

#### **3.1 ERECTION OF GYPSUM BOARD AND ACCESSORIES**

- .1 Do application and finishing of gypsum board in accordance with ASTM C840.
- .2 Install acoustical insulation in sound rated partitions to correspond with tested assembly.
- .3 Install gypsum boards in direction that will minimize number of end-butt joints. Stagger end joints at least 250 mm.
- .4 Provide expansion joints and other accessories at locations indicated and as required by Standards.

#### **3.2 APPLICATION**

- .1 Do not apply gypsum board until bucks, anchors, blocking, sound attenuation, electrical and mechanical work are approved.
- .2 Apply single layer gypsum board to metal furring or framing using screw fasteners. Maximum spacing of screws 300 mm on center.

#### **3.3 INSTALLATION**

- .1 Erect accessories straight, plumb or level, rigid and at proper plane. Use full length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Miter and fit corners accurately, free from rough edges. Secure at 150 mm on center.
- .2 Install casing beads around perimeter of suspended ceilings.
- .3 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated. Seal joints with sealant.
- .4 Install access doors to electrical and mechanical fixtures specified in respective sections.
- .5 Rigidly secure frames to furring or framing systems.
- .6 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape and taping compound installed according to manufacturer's directions and feathered out onto panel faces.
- .7 Finish corner beads, control joints and trim as required with two coats of joint compound and one coat of taping compound, feathered out onto panel faces.
- .8 Fill screw head depressions with joint and taping compounds to bring flush with adjacent surface of gypsum board so as to be invisible after surface finish is completed.
- .9 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.

**END OF SECTION**

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