

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 General Requirements Division 1
- 1.2 REFERENCES .1 Canadian General Standards Board (CGSB)  
.1 CAN/CGSB-51.34-M86, Vapor Barrier, Polyethylene Sheet for Use in Building Construction.  
.2 Underwriters Laboratories of Canada (ULC)  
.1 CAN/ULC-S102-M88, Surface Burning Characteristics of Building Materials and Assemblies.  
.3 American Society for Testing and Materials (ASTM)  
.1 ASTM C 36-95, Specification for Gypsum Wallboard.  
.2 ASTM C 475-94, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.  
.3 ASTM C 514-94, Specification for Nails for the Application of Gypsum Board.  
.4 ASTM C630-93, Specification for Water-Resistant Gypsum Backing Board.  
.5 ASTM C 840-95, Specification and Finishing of Gypsum Board.  
.6 ASTM C 931/931M-95, Specification for Exterior Gypsum Soffit Board.  
.7 ASTM C 954-93 Specification For Steel Drill Screws for the Application of Gypsum Board.
- 1.3 SAMPLES .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.  
.2 Submit 300 mm long samples of corner and casing beads, insulating strip.
- 1.4 SITE ENVIRONMENTAL REQUIREMENTS  
.1 Maintain temperature minimum 10EC, maximum 21EC for 48 hours prior to and during application of gypsum boards and joint treatment, and for at least 48 hours after completion of joint treatment.  
.2 Apply board and joint treatment to dry, frost free surfaces.
- 1.5 QUALIFICATIONS .1 Dry wall installers: minimum 5 years proven experience
- 1.6 MOCK-UPS .1 Submit Mock-Ups in accordance with Section 01 45 00 - Quality Control.

- .2 Construct mock up gypsum board wall installation including one inside corner and one outside corner. Mock-up may be part of finished work.
- .3 Allow 24 hours for inspection of mock-up by the Departmental Representative before proceeding with rest of the work.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Standard board: To ASTM C36/C36M and Type X, thickness as indicated on drawings, 1200mm wide x maximum practical length, ends square cut, edges bevelled.
- .2 Metal furring runners, hangers, tie wires, inserts, anchors: to CSA A82.30, galvanized.
- .3 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
- .4 Resilient drywall furring: 0.5 mm base steel thickness galvanized steel for resilient attachment of gypsum board.
- .5 Nails: to ASTM C 514.
- .6 Steel drill screws: to ASTM C 1002.
- .7 Stud adhesive: to CAN/CGSB-71.25.
- .8 Laminating compound: as recommended by manufacturer, asbestos-free.
- .9 Casing beads, corner beads, control joints and edge trim: to ASTM C 1047, metal, zinc-coated by hot-dip process 0.5 mm base thickness, perforated flanges, one piece length per location.
- .10 Sealants: Section 07900 - Joint Sealers.
- .11 Acoustic sealant: CGSB 19-GP-21M.
- .12 Polyethylene: to CAN/CGSB-51.34, Type 2.
- .13 Insulating strip: rubberized, moisture resistant, 3 mm thick cork strip, 12 mm wide, with self sticking permanent adhesive on one face, lengths as required.
- .14 Joint compound: to ASTM C 475, asbestos-free.

### 2.2 FINISHES

- .1 Texture finish: asbestos-free standard white texture coating and primer-sealer, recommended by gypsum board manufacturer.

## PART 3 - EXECUTION

### 3.1 ERECTION

- .1 Do application and finishing of gypsum board in accordance with ASTM C 840 except where specified otherwise.
- .2 Erect hangers and runner channels for suspended gypsum board ceilings in accordance with ASTM C

- 840 except where specified otherwise.
- .3 Support light fixtures by providing additional ceiling suspension hangers within 150 mm of each corner and at maximum 600 mm around perimeter of fixture.
  - .4 Install work level to tolerance of 1:1200 and other protrusions.
  - .5 Frame with furring channels, perimeter of openings for access panels, light fixtures, diffusers, grilles, and other protrusions.
  - .6 Install 19 x 64 mm furring channels parallel to, and at exact locations of steel stud partition header track.
  - .7 Furr for gypsum board faced vertical bulkheads within and at termination of ceilings.
  - .8 Furr above suspended ceilings for gypsum board fire and sound stops and to form plenum areas as indicated.
  - .9 Install wall furring for gypsum board wall finishes in accordance with ASTM C 840, except where specified otherwise.
  - .10 Furr openings and around built-in equipment, cabinets, access panels, on four sides. Extend furring into reveals. Check clearances with equipment suppliers.
  - .11 Furr duct shafts, beams, columns, pipes and exposed services where indicated.
  - .12 Install 150 mm continuous strip of 12.7 mm gypsum board along base of partitions where resilient furring installed.

### 3.2 APPLICATION

- .1 Do not apply gypsum board until bucks, anchors, blocking, electrical and mechanical work are approved.
- .2 Apply double layer gypsum board to wood or metal furring or framing using screw fasteners. Maximum spacing of screws 300 mm oc.
- .3 Apply single layer gypsum board to concrete or concrete block surfaces, where indicated, using laminating adhesive.
- .4 Apply 12 mm diameter bead of acoustic sealant continuously around periphery of each face of partitioning to seal gypsum board/structure junction where partitions abut fixed building components. Seal full perimeter of cut-outs around electrical boxes, ducts, in partitions where perimeter sealed with acoustic sealant.

### 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. Mitre and fit corners accurately, free from rough edges. Secure at 150 mm oc using contact adhesive for full length.

- .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 insulating strips continuously at edges of gypsum board and casing beads abutting metal window and exterior door frames, to provide thermal break.
- .5 Construct control joints of two back-to-back casing beads set in gypsum board facing and supported independently on both sides of joint.
- .6 Provide continuous polyethylene dust barrier behind and across control joints.
- .7 Locate control joints at changes in substrate construction.
- .8 Install control joints straight and true.
- .9 Construct expansion joints as detailed, at building expansion and construction joints. Provide continuous dust barrier.
- .10 Install expansion joint straight and true.
- .11 Install access doors to electrical and mechanical fixtures specified in respective Sections.
  - .1 Rigidly secure frames to furring or framing systems.
- .12 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.
- .13 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.
- .14 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.
- .15 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .16 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.
- .17 Apply one coat of white primer sealer over surface to be textured. When dry apply textured

- finish in accordance with manufacturer's instructions.
- .18 Mix joint compound slightly thinner than for joint taping.
  - .19 Apply thin coat to entire surface using trowel or drywall broadknife to fill surface texture differences, variations or tool marks.
  - .20 Allow skim coat to dry completely.
  - .21 Remove ridges by light sanding or wiping with damp cloth.

3.4 SCHEDULES

- .1 Construct wall assemblies as described and where indicated.

END OF SECTION