

PART 1 - GENERAL

1.1 REFERENCES

- .1 Codes and standards referenced in this section refer to the latest edition thereof.
- .2 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM C36/C36M, Specification for Gypsum Wall board.
 - .2 ASTM C475, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
 - .3 ASTM C514, Specification for Nails for the Application of Gypsum Board.
 - .4 ASTM C630/C630M, Specification for Water-Resistant Gypsum Backing Board.
 - .5 ASTM C840, Specification for Application and Finishing of Gypsum Board.
 - .6 ASTM C931/C931M, Specification for Exterior Gypsum Soffit Board.
 - .7 ASTM C954, Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness.
 - .8 ASTM C1002, Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
 - .9 ASTM C1047, Specification for Accessories for Gypsum Wall board and Gypsum Veneer Base.
- .3 Association of the Wall and Ceilings Industries International (AWEI)
- .4 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S102, Surface Burning Characteristics of Building Materials and Assemblies.

1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials in original packages, containers or bundles bearing manufacturers brand name and identification.
- .2 Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.
- .3 Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

1.3 SITE ENVIRONMENTAL REQUIREMENTS

- .1 Maintain temperature minimum 10°C, maximum 21°C 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.
- .3 Ventilation: Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

1.4 QUALIFICATIONS

- .1 Dry wall installers: minimum 5 years proven experience.

1.5 MOCKUPS

- .1 Prepare Mock-Ups in accordance with Section 01 45 00 - Testing and 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 48 hours for inspection of mock-up by Departmental Representative before proceeding with rest of the work.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Water-resistant board: to ASTM C630/C630M, regular 12.7 mm thick and Type X, 16mm thick, 1220 mm wide x maximum practical length.
- .2 Nails: to ASTM C514.
- .3 Steel drill screws: to ASTM C1002.
- .4 Casing beads, corner beads, control joints and edge trim: to ASTM C1047, metal, zinc-coated by hot-dip process 0.5 mm base thickness, perforated flanges, one piece length per location.
- .5 Joint compound: to ASTM C475, asbestos-free.

PART 3 - EXECUTION

3.1 ERECTION

- .1 Do application and finishing of gypsum board in accordance with ASTM C840 except where specified otherwise.
- .2 Install work level to tolerance of 1:1200.
- .3 Frame with furring, perimeter of openings for access panels, light fixtures, diffusers, grilles, and other protrusions.

3.2 APPLICATION

- .1 Do not apply gypsum board until bucks, anchors, blocking, sound attenuation, electrical and mechanical work are approved.
- .2 Apply gypsum board where indicated, using screw fasteners. Maximum spacing of screws 300 mm o.c.
- .3 Install gypsum board on walls vertically to avoid end-butt joints.
- .4 Install gypsum board with face side out.
- .5 Do not install damaged or damp boards.
- .6 Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

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 o.c. using contact adhesive for full length.
- .2 Install insulating strips continuously at edges of gypsum board and casing beads abutting metal window and door frames, to provide thermal break.
- .3 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.

- .4 Gypsum Board Finish: finish gypsum board walls and ceilings to following levels in accordance with Association of the Wall and Ceiling Industries (AWCI) International Recommended Specification on Levels of Gypsum Board Finish:
 - .1 Levels of finish:
 - .1 Level 4: Embed tape for joints and interior angles in joint compound and apply three separate coats of joint compound over joints, angles, fastener heads and accessories; surfaces smooth and free of tool marks and ridges.
- .5 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.
- .6 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.
- .7 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .8 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.
- .9 Mix joint compound slightly thinner than for joint taping.
- .10 Remove ridges by light sanding or wiping with damp cloth.
- .11 Provide protection that ensures gypsum drywall work will remain without damage or deterioration at time of substantial completion.