
1 GENERAL

1.1 General Requirements

- .1 All requirements of the Contract apply to and govern all work of this Section.
- .2 Comply with the requirements of Division 1.

1.2 Related Work Specified in Other Sections

- .1 Sealants Section 07 92 00
- .2 Wood Doors Section 08 14 00
- .3 Interior Painting Section 09 91 23

1.3 Standards Referred to in this Section

- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM C1396 / C1396M - 14a, Standard Specification for Gypsum Board.
 - .2 ASTM C475 / C475M - 12e1, Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
 - .3 ASTM C514 - 04(2014), Standard Specification for Nails for the Application of Gypsum Board.
 - .4 ASTM C840 - 13, Standard Specification for Application and Finishing of Gypsum Board.
 - .5 ASTM C1047-14a, Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.25-M88, Adhesive, for Bonding Drywall to Wood Framing and Metal Studs.
- .3 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC S702-09-AM1, Standard for Thermal Insulation Mineral Fibre for Buildings, Includes Amendment 1 (January 2012)

1.4 Quality Assurance and Extended Guarantees

- .1 No specific requirements.

1.5 Specific Handling and Transportation Requirements

- .1 Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.
- .2 Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

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- .3 Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

1.6 Submittals

- .1 Shop drawings : Not required.
- .2 Samples : Not required.

1.7 Closeout Submittals

- .1 No specific requirements.

1.8 Specific Environmental Requirements

- .1 Install and finish gypsum board when ambient temperature is between 14 and 33 degrees C. Maintain temperature range in areas to receive gypsum board for 24 hours before and during application and until joint cement and adhesives are fully cured.
- .2 Apply gypsum board after building has been completely enclosed. Ensure that work to be concealed by gypsum board has been installed, tested, inspected and approved before starting work.

1.9 Specific Protection Requirements

- .1 No specific requirements.

2 PRODUCTS

2.1 Gypsum Board

- .1 Vinyl-faced gypsum board: to ASTM C1396/C1396M, type 'X' 12.7 mm thick and 15.7 mm thick as indicated, 0.15 mm thick vinyl wall covering having maximum flame spread: 25, fuel contributed: 35, smoke developed: 50 when tested to CAN/ULC-S102.

2.2 Metal Furring and Suspensions Systems

- .1 Metal furring runners, hangers, tie wires, inserts, anchors: to CSA A82.30, galvanized.
- .2 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
- .3 Resilient drywall furring: 0.5 mm base steel thickness galvanized steel for resilient attachment of gypsum board.

2.3 Fastenings and Adhesives

- .1 To light gauge steel or wood studs:
 - .1 Nails to ASTM C514, screws to C1002.
- .2 Stud adhesive: to CAN/CGSB-71.25.

2.4 Accessories

- .1 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.
- .2 Acoustic sealant: see Section 07 92 10 - Sealants.
- .3 Joint compound: to ASTM C475, asbestos-free.
- .4 Acoustic batt insulation: for sound rated locations: to CAN/ULC S702-09, density of 48 kg/m³, thickness as indicated for steel stud framing.
- .5 Partition head: steel recessed ceiling track with PVC trim cap.
- .6 Partition base: top set type, 65 mm high to match existing. PVC adhesive applied.

3 EXECUTION

3.1 General Furred Ceilings

- .1 Do work in accordance with ASTM C840 except where specified otherwise.

3.2 Wall Furring

- .1 Install wall furring for gypsum board wall finishes in accordance with ASTM C840, except where specified otherwise.
- .2 Furr openings and around built-in equipment, cabinets, access panels, on four sides. Extend furring into reveals. Check clearances with equipment suppliers.

3.3 Resilient Furring

- .1 Erect drywall resilient furring transversely across studs and joists spaced maximum 600 mm oc and not more than 150 mm from ceiling/wall junction. Secure to each support with 32 mm drywall screws.
- .2 Install 150 mm continuous strip of 12.7 mm gypsum board along base of partitions where resilient furring installed.

3.4 Gypsum Board Application

- .1 Do not apply gypsum board until bucks, anchors, blocking, electrical and mechanical work are approved.
- .2 Apply gypsum board to furring or framing using screw fasteners. Maximum spacing of screws 300 mm o/c.
 - .1 Single-Layer Application:
 - .1 Apply gypsum board on ceilings prior to application of walls in accordance with ASTM C840.
 - .2 Apply gypsum board vertically or horizontally, providing sheet lengths that will minimize end joints.
- .3 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.
- .4 Install gypsum board on walls vertically to avoid end-butt joints. At stairwells and similar high walls, install boards horizontally with end joints staggered over studs, except where local codes or fire-rated assemblies require vertical application.
- .5 Install gypsum board with face side out.
- .6 Do not install damaged or damp boards.
- .7 Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

3.5 Accessories

- .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.
- .2 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated.
- .3 Install corner beads at exterior corners.
- .4 Install acoustic batt insulation in partitions as indicated. Caulk panel edges and tracks in accordance with Section 07 92 00.

3.6 Access Doors

- .1 Install access doors to electrical and mechanical fixtures specified in respective Sections.
- .2 Rigidly secure frames to furring or framing systems.

3.7 Taping and Filling

- .1 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.
- .2 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.
- .3 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.
- .4 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .5 Apply a thin coat of joint compound over the board on each side of joints and embed the reinforcing tape and roll firmly into place. Cover all edges of tape with a thin coat of joint compound. Neatly crease tape at all internal corners. Allow to dry 24 hours. Retouch all defects in taping and filling and all other depressions or imperfections in gypsum board applications after the first prime application under illumination of not less than 540 lumens per square meter.
- .6 Apply joint compound over the flanges of all corner beads and casing beads flush with nose of the bead and extending at least 75 mm onto the surface of the board.
- .7 After bedding coat has set, apply a second coat of joint compound feathered at least 150 mm on each side of butt joints and 100 mm past the flanges of all beads.
- .8 After the second coat has set apply a third coat of joint compound feathered to 200 mm on each side of butt joints and 125 mm past the flanges of all beads.
- .9 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.

3.8 Acoustic Treatment

- .1 Install sound control blankets per manufacturers' printed instructions to provide continuous coverage.
- .2 Apply acoustic caulking to full perimeter of sound rated partitions indicated. Seal fully between floor and gypsum board.

3.9 Cleaning

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

END OF SECTION