

PART I – GENERAL**WORK SPECIFIED HEREIN**

- All labor, material, equipment and services necessary to furnish and install all the gypsum wallboard finish complete with related metal components and accessories and finish surfaces as indicated or specified.

SUBMITTALS

- Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.

QUALITY ASSURANCE

- Manufacturers: Wallboard components shall be furnished as a part of a single system, whether it be supplied by one or several manufacturers.
- Refer to Materials and Product Schedule for additional information.
- Samples: Provide sample of texture finishes for PETSMART's approval.

PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver wallboard materials in manufacturer's unopened containers, packages or bundles identified with manufacturer's name, brand, type and grade. Store inside in dry areas and protect from dampness and deterioration. Protect redi-mixed products from freezing and protect metal accessories from rusting. Remove damaged or deteriorated materials from the premises.

Deliver fire-rated materials bearing testing agency label and required fire classification number.

JOB CONDITIONS

- *Temperature and Humidity Conditions:* Do not install wallboard unless installation areas comply with the minimum temperature and ventilation requirements recommended by the manufacturer.
- *Protection:* Protect work installed by other trades previous to work under this section. Replace any work damaged without added cost to the Owner.
- Provide closures for exterior openings, where required. Room temperature during installation of wallboard shall not be less than 50° F., with adequate ventilation maintained to eliminate excessive moisture until joint compound is completely dry. Protect wallboard from wetting, and replace any damaged material.
- Provide ventilation during the following adhesives and joint treatment applications. Use temporary air circulators in enclosed areas lacking natural ventilation. Under slow drying conditions, allow additional

drying time between coats of joint treatment. Protect installed materials from drafts during hot, dry weather.

PART II – PRODUCTS**GYPSUM WALLBOARD**

- *Regular Wallboard:* ASTM C-36; 15.9 mm (5/8") thickness, tapered edge.
- *Fire Rated Wallboard:* ASTM C-36, Type X; 12.7 mm (1/2") & 16 mm (5/8") thickness, tapered edge.
- *Water-Resistant Wallboard:* ASTM C-1396, Grade Type X, 15.9 mm (5/8") thickness, tapered edge.
- *Exterior Wallboard as E.I.F.S. substrate:* ASTM C1177, Type II, Grade W, Class 2, ASTM C-79, exterior grade gypsum sheathing 15.9 mm (5/8") thick, Type 'X', moisture resistant (M.R.).
- *Exterior Ceiling:* Canadian Gypsum Company (CGC) exterior gypsum ceiling board, 15.9 mm (5/8") thickness, or conforming to ASTM C-931.

WALLBOARD ACCESSORIES

Corner Bead Reinforcement: ANS CB 114 X 114.

Metal Edge Reinforcement: ANS L 12 or L 58; or ANS U 12 or U 58.

Control Joint: Canadian Gypsum Company (CGC), No. 093

FASTENERS

Nails: Annular ring shank nail, GWB-54, ASTM C-514, 32 mm (1-1/4") for 12.7 mm (1/2") wallboard, 35 mm (1-3/8") for 15.9 mm (5/8") wallboard; or smooth shank nail, 35 mm (1-3/8") for wallboard, 38 mm (1-1/2") for 15.9 mm (5/8") wallboard.

Screws: Self-drilling, self tapping, bugle head, for use with power driven tool. Type S for application to light gauge metal framing, minimum 25 mm (1"), Type 12 for application to heavy gauge metal framing (ASTM C-646); Type W for application to wood framing, minimum 38 mm (1-1/2") (single layer) 41 mm (1-5/8") (double layer); (ASTM C-894); Type G for wallboard to wallboard application, minimum 38 mm (1-1/2") (ASTM C-893) at lead lined wallboard provide lead tabs at screws.

LAMINATING ADHESIVES

- *Wallboard to Wood or Metal Framing:* Canadian Gypsum Company (CGC) Durabond 200 or 300; or conforming to ASTM C-557 for wood framing.
- *Wallboard-to-Wallboard:* Canadian Gypsum Company (CGC) SHEETROCK All Purpose Joint Compound Ready-Mixed.
- *Wallboard to Coreboard or Sound Deadening Boards:* Canadian Gypsum Company (CGC) SHEETROCK All Purpose Joint Compound Ready-Mixed.
- *Wallboard to Concrete or Masonry:* Canadian Gypsum Company (CGC) SHEETROCK All Purpose Joint Compound Ready-Mixed.

SUSPENDED CEILING COMPONENTS

- *Furring Channels:* Type DWC as manufactured by Canadian Gypsum Company (CGC), or rigid furring channels conforming to ASTM C-645.
- *Main Runner Channels:* Cold rolled sections, 38 mm (1-1/2"), formed of 1.5 mm (16 gauge) metal core thickness steel, painted with rust-inhibiting paint.
- *Hanger Wires:* Sizes specified, double annealed and galvanized, conforming to ASTM A641 Class1.
- *Steel Stud Framing:* Per ASTM C645, galvanized, 0.84 mm (0.0329 inch) minimum metal core thickness, depth as indicated on the drawings.

WALLS AND PARTITION FRAMING

- *General:* Comply with ASTM C754 and the following:
- *Steel Studs and Runners:* Per ASTM C645, 0.84 mm (16 gauge) metal core thickness, unless otherwise indicated, hot dipped galvanized, depth as indicated on drawings.
- *Steel Rigid Furring Channels:* Per ASTM C645, 0.84 mm (16 gauge, 7/8 inch) depth, hot dipped galvanized.
- *Slotted Ceiling Tracks:* 1.5 mm (16 gauge) metal core thickness, galvanized with slotted holes in the flanges and pop-up tabs in the web.

FINISHING MATERIALS

Joint treatment system shall be Perf-A-Tape joint system consisting of:

- Perf-A-Tape reinforcement tape.
- Perf-A-Tape all purpose ready mixed compound for embedding, fill and finishing.

SEALANTS

Sealant (non-acoustical) shall be as specified under Section 07900 of these Specifications.

Acoustical Sealant: Refer to Materials and Product Schedule for additional information.

SOUND ATTENUATION INSULATION

Sound Attenuation Blankets shall be noise barrier batts, Type 1, foil faced or unfaced 89 mm (3-1/2") thick. Refer to Materials and Product Schedule for additional information.

PART III – EXECUTION**INSTALLATION - SUSPENDED CEILINGS**

- Except where otherwise indicated, provide 38 mm (1-1/2") main runner channels spaced on 1220 mm (4 foot) centers and metal furring channels spaced on not over 406 mm (16") centers. Neither main runners nor cross furring shall be let into nor come in contact

with abutting masonry walls or partitions. Locate a main runner within 150 mm (6") of the wall to support the ends of the furring channels, and located hangers to support the ends of the main runners.

- Where main runners or furring channels are spliced, overlap the ends not less than 204 mm (8") and securely tie near each end of the splice with 2 loops of 1.5 mm (16 gauge) galvanized wire.
- Suspend main runners from structure above with one No. 9 hanger wire for each 1.1 m² (12 square feet) of ceiling area. All wire hangers shall be of such length so that the lower ends may be saddletied or wrapped around the main runners so as to prevent turning or twisting of the runners.
- At steel beams, joists or other steel construction wrap hangers around, inset through, or clip or bolt to the supports, so as to develop the full strength of the hangers.
- For wood construction inset wire hangers in holes drilled a minimum of 75 mm (3") above bottom of joists and with the upper end of the hangers to 3-12d nails, driven on a downward slant into sides of joists allowing minimum 32 mm (1-1/4") penetration into the wood, driving nails at least 125 (5") from bottom edges and not over 915 mm (36") o.c. with the upper end of the hanger in each case twisted 3 times around itself, or use 114 mm (4 1-1/2") No. 9 gauge wire staples to secure hangers to the sides of the joists, driving staples horizontally or on a downward slant, 3 near the upper edge of the loop and the fourth to fasten the loose end.
- Securely clip metal furring channels to main runners using furring channel clips or saddletie with 2 strands of 1.5 mm (16 gauge) tie wire. Install furring channel clips on alternate sides of the main runner channel.
- At lights or other openings that interrupt the main runner or furring channels reinforce grillage with 19 mm (3/4") cold rolled channels, wire tied atop and paralleled to the main runner channels.
- Apply wallboard with long dimension at right angles to the furring channels, with all abutting ends and edges occurring over the web surface of the furring channel. Use wallboard of maximum possible length to minimize end joints. Neatly fit and stagger end joints. Install wallboard with 41 mm (1-5/8") screws spaced 204 mm (8") o.c. in the field of the board, at all bearings, and along abutting edges. Install control joints as specified below for walls.

INSTALLATION - WALLS

- **Apply wallboard with long dimension at right angles to framing or furring members** with all abutting ends and edges occurring over stud flanges. Use wallboard of the maximum practical length to minimize end joints. Neatly fit and stagger end joints. Arrange joints on opposite sides of the partition as to occur on different studs. Cut wallboard neatly to fit around all openings. Wallboard to extend to within 6 mm (1/4") off the floor. (No Exceptions)

- Whenever wallboard terminates against dissimilar materials or where edges of wallboard are exposed, provide continuous caulking and install metal edge reinforcement as specified. At all outside corners install metal corner bead reinforcement as specified.
- At metal studs apply wallboard using screws spaced a maximum of 300 mm (12") o.c. in the field of the board and 300 mm (12") on center along the abutting end joints; 204 mm (8") o.c. at rated walls.
- At wood framing apply wallboard with double nailing method. Apply first nails spaced 300 mm (12") o.c. with the second nail in close proximity (2") installed after first nails are in place. Nails shall not be staggered on adjoining edges or ends. While the nails are being driven, hold the wallboard in firm contact with the underlying support. Nail from central portion of the wallboard toward ends and edges. Nails shall be driven home with the heads slightly below the surface of the wallboard, in a dimple form by the driving tool stubbing the last blow. A nail set shall not be used and care shall be taken to avoid breaking the paper face.
- At double stud partitions, such as at chases, install strips of wallboard 300 mm (12") wide and of length to span the partition depth by screwing to the webs of opposing studs. Space strips approximately 1 070 mm (42") o.c.
- Provide perimeter relief where non-load-bearing wallboard partitions abut structural decks or ceilings of vertical structural elements. Allow 50 mm (2") gap between wallboard and structure. Finish edges of wallboard face layer with square-nose metal casing head and caulk space between casing bead and structure with continuous sealant bead. Attach wallboard to studs not less than 13 mm (1/2") below bottom edge of ceiling track flanges and to first stud adjacent to vertical tracks. Do not attach wallboard directly to tracks.
- Where wallboard partitions intersect masonry walls, provide control joint no less than 6 mm (1/4"); nor more than 10 mm (3/8") wide between wallboard and masonry. Finish exposed edges of wallboard with square-nose metal casing bead and caulk space between casing bead and masonry with continuous sealant bead.
- Install exterior ceiling board allowing 105 mm (1/16") to 3 mm (1/8") space between butt ends of board. Fasten to supports with screws spaced 300 mm (12") o.c. or nails spaced 8" o.c. For metal framing use 1" Type S screws. For wood framing use 6 mm (1/4") Type W Screws or 38 mm (1-1/2") galvanized box or aluminum nails. Conceal panel joints by installing panels with ends installed into aluminum H moldings. Fasten H moldings to support with screws spaced 300 mm (12") o.c. or nails spaced 204 mm (8") o.c.
- At areas of lead lined wallboard, provide minimum 0.75 mm (1/32") sheeting at all recess to fully enclose recessed equipment.
- Sound blankets shall be pressed firmly in place against back of gypsum board and stapled. Staples and method of installation shall be in accordance with manufacturer's instructions. An air space shall be maintained between blankets and back surface of one partition face.
- Continuity of blankets shall be maintained. Use full-length strips where possible.
- This contractor shall consult and cooperate with tradesmen whose w/o precedes and follows sound blanket installation to permit the orderly and expeditious procedure in executing work of this Section.
- Upon completion, and at times when other contractors are covering work, correct loose, sagged or damaged work.

FINISHING

- Reinforce wall and ceiling angles and inside vertical corner angles with tape folded to conform to the adjoining surface and to form a straight, true angle.
- Apply a thin uniform layer of compound, approximately 75 mm (3") wide, under and over the tape in the angle joint to be reinforced. Center tape over all joints to be reinforced and seal into the compound, leaving sufficient compound under the tape to provide proper bond. Apply a skim coat of compound immediately after embedding tape. Clean excess compound from the wallboard surface. After drying, cover embedding compounds with an additional coat of compound.
- Allow joints to dry thoroughly (minimum of 24 hours) between each application of compound.
- All joints shall have tape embedded, filled and finished using specified compound.
- Cover fill coat with compound spread evenly over and slightly beyond the tapered edge of the board, feathered at the edges, with a smooth uniform slight crown over the joint. All dimples at fastener heads shall receive 3 coats of compound in succession as used in joints.
- Conceal flanges of all metal corner and edge reinforcing by at least 2 coats of compound. When completed, the compound shall extend approximately 204 mm (8") to 250 mm (10") on either side of the exposed metal nosing.
- Sand all coats as necessary after each application of compound has dried. The final coat and subsequent sanding shall leave all wallboard and treated areas uniformly smooth and ready to receive decoration, to the extent that after painting of wallboard there shall be no distinguishable difference in appearance between taped and untapped surface.

INSTALLATION - SOUND ATTENUATION BLANKETS

- Place sealant under track. Install acoustical insulation in between studs. Stagger wallboard joints.

END OF SECTION

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