

SECTION 09250
GYPSON WALLBOARD

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope:

1. This Section includes the furnishing and installation of gypsum wallboard and related accessories as indicated on the Drawings and specified herein.

1.02 RELATED WORK

- A. UNIT MASONRY: Section 04220.
- B. COLD FORMED METAL FRAMING: Section 05400
- C. ROUGH CARPENTRY: Section 06100.
- D. FINISH CARPENTRY: Section 06200.
- E. PAINTING: Section 09900.

1.03 QUALITY ASSURANCE

- A. Where work is indicated for fire-resistance ratings, including those required to comply with governing regulations, the materials and installation shall be identical to those applicable assemblies which have been tested and approved by recognized authorities, including Underwriters' Laboratories and Factory Mutual Insurance Corporation.
- B. The requirements of Gypsum Association (GA) Standard 216 shall apply where applicable, except where more detailed or more stringent requirements are indicated, including the recommendations of the manufacturer.
- C. A maximum of 1/8 inch offsets between planes of board faces, and 1/4 inch in 8 feet for plumb, level, warp, and bow shall be allowed.
- D. The materials shall be from one (1) manufacturer, and the source of brands of materials shall not be changed during construction.

1.04 SUBMITTALS

A. Product Data:

1. Submit manufacturer's technical information and installation instructions for each manufactured product.

1.05 PRODUCT DELIVERY AND STORAGE

- A. Materials shall be delivered in sealed containers and bundles, fully identified with the manufacturer's name brand, type and grade. Materials shall be stored in a dry, well-ventilated space, protected from the weather, under cover, and off the ground.
- B. Gypsum wallboard shall not be stored for more than one (1) month.

PART 2 - PRODUCTS

2.01 METAL SUPPORT MATERIALS

- A. The requirements of GA-203 shall apply where applicable, except where more detailed or stringent requirements are indicated, including the recommendation of the manufacturer.
 - 1. Refer to Section 05400 - COLD FORMED METAL FRAMING.
- B. Materials:
 - 1. Furring members shall be ASTM C 645, 25-gauge, hat-shaped, galvanized channel, 1-1/2inch deep 16" on center, or, 3-5/8" 25 gauge galvanized metal studs at 16" on center for walls requiring R-8 or greater insulation.
 - 2. Manufacturer's standard galvanized steel studs of size and shape, indicated, with nominal 1-5/8" flange. See drawings for gauge but in no case provide less then 3-5/8" 25 gauge at 16" on center.
 - 3. Fasteners shall be of type and size recommended by the manufacturer for the substrate and application as indicated.
 - 4. Screws attaching gypsum board to metal studs shall be corrosion resistant No. 6 Phillips, bugle head drywall screws designed for fastening to metal, of 1 inch size for single ply and longer for greater thickness of gypsum board.

2.02 GYPSUM BOARD

- A. Gypsum board shall be 5/8 inch thick except as otherwise shown on Drawings, conforming to ASTM C 36, of maximum available lengths to minimize end joints.
- B. Fire-rated gypsum board, indicated on the Drawings as "Type-X" or "Firecode" or "fire rated", shall comply with ASTM C 36 for fire-rated type gypsum board.
- C. Water Resistant Type where indicated and/or required in toilet rooms, janitor's closet, and other "wet" areas shall conform to ASTM C 630. DO NOT use water resistant board for ceilings in "wet" areas; use regular gypsum board with paint (primer and two coats semi-gloss enamel). Refer to Section 09900 - PAINTING. Use 5/8" cement board as backer at all porcelain / ceramic wall tile.
- D. Products: Provide products by one of the following manufacturers:
 - 1. GP Gypsum Corporation.
 - 2. Gold Bond Building Products, Div. National Gypsum Company.
 - 3. United States Gypsum Company.

2.03 ACCESSORIES

- A. Casing beads shall be solid zinc of type for securing through face of tapered edge, and embedding and taping to conceal surface flange. U-moldings and channel-shaped plaster/stucco type casing beads are NOT acceptable.
 - 1. Products: Provide one of the following:
 - a. "D-200 Series L Bead"; Dale Industries, Inc.
 - b. "No. 200 Wallboard Casing"; Gold Bond Building Products, Div. National Gypsum Company.
 - c. "Sheetrock 200 Series"; United States Gypsum Co.
- B. Corner beads shall be of standard type of solid zinc with perforated surface flanges to be attached through each gypsum face and concealed by embedding, of sizes for pertinent application.
 - 1. Products: Provide one of the following:
 - a. "Drywall Corner Bead"; Dale Industries, Inc.
 - b. "Gold Bond Wallboard Cornerbead"; Gold Bond Building Products, Div. National Gypsum Company.
 - c. "Dur-a-Bead Corner Bead"; United States Gypsum Co.
- C. Control joints shall be one-piece, formed with vee-shaped slot per Figure 1 in ASTM C 1047, with slot opening covered with removable strip.

2.04 ADHESIVE

- A. Product: Provide "Wallboard/Panel Adhesive," or "MC Adhesive," by Gold Bond Building Products, Div. National Gypsum Company.

2.05 JOINT TREATMENT MATERIALS

- A. Joint tapes shall be plain or perforated complying with ASTM C 475.
- B. Joint compound shall be adhesive, with or without fillers complying with ASTM C 475. Provide in dry powder form or pre-mixed ready for application as follows:
 - 1. Single-Compound: Provide manufacturer's single-component compound for both bedding and finishing joints.
 - 2. Two-Compound Treatment: Provide compatible joint compounds: one compound for bedding and other compound for finishing joints.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the areas and conditions under which the gypsum board is to be installed. Do not proceed with gypsum wallboard work until unsatisfactory conditions have been corrected.

3.02 INSTALLATION OF GYPSUM WALLBOARD

- A. Comply with GA-216, unless the manufacturer's published instructions or requirements for fire-resistance ratings are more stringent.

- B. Wall boards shall be installed horizontally to avoid end-butt joints wherever possible. Locate end joints over supports and stagger in alternate courses of board.

3.03 INSTALLATION OF GYPSUM BOARD TRIM ACCESSORIES

- A. Where feasible, trim accessory flanges shall be anchored using same fasteners as required to fasten gypsum board to the supports. Otherwise, flanges shall be fastened by nailing or stapling.
- B. Metal corner beads shall be installed at all external corners of gypsum board work with fasteners, driven down to be fully concealed by joint compound.
- C. Continuous casing beads shall be installed wherever gypsum board terminates in visible locations (and is not concealed by extending behind other materials), abutting to other materials such as masonry, windows, etc.
- D. Install control joints at locations indicated, or if not indicated, at spacings and locations required by referenced gypsum board application and finish standard, and approved by the Architect for visual effect.

3.04 GYPSUM BOARD FINISHING

- A. Exposed drywall surfaces shall be finished with joints, corners, and exposed edges reinforced or trimmed as specified, and with all joints, fastener heads, trim accessory flanges and surface defects filled with joint compound in accordance with manufacturer's recommendations for smooth flush surfaces. True, level, or plumb lines shall be formed, without joints, fastener heads, flanges of trim accessories, or defects visible after application for field-applied paint finish.
- B. Joint tape shall be used to reinforce joints formed by tapered edges or butt ends of drywall units, and at interior corners and angles, with tape set in joint compound and skim coat applied over tape on application. Where open spaces of more than 1/16 inch width occur between abutting drywall units, joints shall be filled with joint compound and allowed to dry before application of joint tape.
- C. After mixing, joint compounds shall not be used if recommended pot-life time has expired. Drying time between applications of joint compound shall be in accordance with manufacturer's recommendations for relative humidity and temperature levels at time of application, in no case allowing less than 24 hours drying time between applications of joint compound. Not less than three (3) separate coats of joint compound shall be applied over joints, fasteners heads and metal flanges. Except at sound-rated or fire-rated applications, joint compound treatment is not required above suspended ceilings where partitions are shown to extend to structural deck.
- D. Dimpled heads and other depressions in wallboard surfaces, shall be finished with two (2) coats topping compound.
- E. All openings around pipes, fixtures, ducts, etc. shall be sealed flush with water-proof, non-hardening, sealant compound. Penetrations of fire-resistance assemblies shall be sealed with fire-resistant sealant in accordance with Section 07900 - JOINT SEALANTS.
- F. All joints, corners, dimples, etc., shall be finished with joint compound and topping compound as directed by the compound manufacturer, leaving all wallboard surfaces smooth and ready for paint finish.

3.05 FINISH

- A. In general, provide a "LEVEL 4" finish throughout. Provide minimum 4' x 4' sample area representative of proposed finish for Architect's review and approval.
- B. Provide a "LEVEL 5" finish on all surfaces to receive gloss paint.

- C. Provide a "LEVEL 5" finish on all walls to receive magnetic paint.

3.06 METAL STUDS

- A. Install metal framing system in strict accordance with manufacturer's printed or written instruction and recommendations. Employ authorized installers approved by the manufacturer to do all installation work.
- B. Install continuous tracks sized to match stud depth. Align tracks accurately to layout at base and tops of studs. Secure tracks as recommended by stud manufacturer for type of construction involved, except do not exceed 24" o.c. spacing for nail or power driven fasteners, or 16" o.c., for other types of attachments. Provide fasteners at corners and at ends of tracks.
- C. Install studs vertically in the runners, 16 inches on centers. Provide additional framing and headers at all openings as required.
- D. Where required, temporary bracing shall be provided until erection is completed.
- E. Resistance to bending and rotation about the minor axis shall be provided by mechanical lateral bracing where required.

END OF SECTION 09250