

DIVISION 9 - FINISHES

SECTION 09260

GYPSUM BOARD SYSTEMS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications Sections, apply to this Section.
- B. Related Sections:
 - 1. Section 01001 - Basic Requirements
 - 2. Section 09900 - Painting

1.02 SECTION INCLUDES

- A. Metal stud wall framing.
- B. Metal channel ceiling and wall framing.
- C. Acoustic insulation.
- D. Gypsum board with taped and sanded joint treatment.
- E. Aluminum Corner Wall Guards

1.03 SYSTEM DESCRIPTION

- A. Acoustic Attenuation for Identified Interior Partitions: STC in accordance with ASTM E90 and classified per ASTM E 413.
- B. Conform to applicable code for fire rated assemblies and in conjunction with Section 05400 and as follows:
 - 1. Fire Rated Partitions: Listed assembly by, UL, FM, and GA File Numbers. Assemblies tested per ASTM E 119.
 - 2. Fire Rated Ceiling and Soffits: Listed assembly by UL, FM, and GA File Numbers. Assemblies tested per ASTM E 119.
 - 3. Fire Rated Structural Column Framing: Listed assembly by UL, FM, GA File Numbers. Assemblies tested per ASTM E 119.
 - 4. Fire Rated Structural Beam Framing: Listed assembly by UL, FM, GA File Numbers. Assemblies tested per ASTM E 119.
 - 5. Fire Rated Shaft Wall Requirements: One and Two hour in accordance with UL listed assembly number for application requirements.

1.04 SUBMITTALS

- A. Product data for each type of product specified.
- B. Product certificates signed by manufacturers of gypsum board assembly components certifying that their products comply with specified requirements.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with ASTM C840. GA-201 - Gypsum Board for Walls and Ceilings. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board. GA-600 - Fire Resistance Design Manual. Where Fire rated gypsum board assemblies are indicated, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by an independent testing and inspecting agency acceptable authorities having jurisdiction.
- B. Single-Source Responsibility for Steel Framing: Obtain steel framing members for gypsum board assemblies from a single manufacturer.
- C. Single Source Responsibility for Finishing Materials: Obtain finishing materials from either the same manufacturer that supplies gypsum board and other panel products or from a manufacturer acceptable to gypsum board manufacturer.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier.
- B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Neatly stack gypsum panels flat to prevent sagging.
- C. Handle gypsum board to prevent damage to edges, ends, and surfaces. Do not bend or otherwise damage metal corner beads and trim.

1.07 PROJECT CONDITIONS

- A. Environmental Conditions, General: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C840 and with gypsum board manufacturer's recommendations.
- B. Room Temperature: For non-adhesive attachment of gypsum board to framing, maintain not less than 40 degree F (4 deg C). For adhesive attachment and finishing of gypsum board, maintain not less than 50 degree F (10 deg C) for 48 hours prior to application and continuously after until dry. Do not exceed 95 deg F (35 deg C) when using temporary heat sources.
- C. Ventilation: Ventilate building spaces, as required, for drying joint treatment materials. Avoid drafts during hot dry weather to prevent finishing materials from drying too rapidly.

PART 2 PRODUCTS

2.01 GYPSUM BOARD SYSTEM

- A. Manufacturers:
 - 1. Steel Framing and Furring:
 - a. Dale Industries, Inc.
 - b. Marino Industries Corp.
 - c. Gold Bond Building Products Div., National Gypsum Co.
 - 2. Grid Suspension Assemblies:

- a. Chicago Metallic Corp.
 - b. National Rolling Mills Co.
 - c. USG Interiors, Inc.
 - 3. Gypsum Board and Related Products:
 - a. Firestop Type C, Georgia-Pacific Corp.
 - b. Fire-Shield G, Gold Bond Building Products Div., National Gypsum Co.
 - c. United States Gypsum Co.
 - 4. Cementitious Backer Units Product and Manufacturer:
 - a. DomCrete Cementitious Tile-Backer Board, Domtar Gypsum.
 - b. Util-A-Crete Concrete Backer Board, FinPan, Inc.
 - c. Wonder-Board, Glascrete, Inc.
 - d. DUROCK Interior Cement Board, United State Gypsum Co.
- B. Studs and Tracks: ASTM C645; GA-216 and GA-600; galvanized sheet steel, C shape, with serrated faces. All studs and/or joists and accessories shall be made of the type, size, thickness and spacing shown on the drawings or as required by calculation. In no case shall wall studs be less than 20 gauge. For stud walls over 10 feet in height the gauge shall be not less than 18 gauge. Conform to stud gauge called for on structural drawings and details for special conditions where stiffer gauge steel studs are called for.
- C. Furring, Framing and Accessories: ASTM C645. GA-216, and GA-600.
- D. Gypsum Board Types: 5/8 inch thick (rated and non rated), maximum permissible length; ends square cut or (tapered as required), edges; unless noted otherwise as follows:
- 1. Standard Type: ASTM C36.
 - 2. Fire Rated Type: ASTM C36 fire resistive, UL rated.
 - 3. Moisture Resistant Type: ASTM C630.
 - 4. Exterior Gypsum Soffit Board: ASTM C931.
 - 5. Foil Faced Gypsum Board: ASTM C36.
 - 6. Gypsum Sheathing Board: ASTM C79.
 - 7. Gypsum Core Board: ASTM C442, square edges.
 - 8. Cementitious Backing Board: High density, cementitious, glass fiber reinforced, in thickness required and recommended for application.

2.02 ACCESSORIES

- A. Acoustical Insulation: ASTM C665, preformed mineral wool, friction fit type, unfaced, in thickness required for application.
- B. Acoustical Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.
- C. Corner Beads: Metal.
- D. Edge Trim: GA 201 and GA 216, Type LC bead U shape exposed reveal bead.
- E. Joint Materials: ASTM C475, GA 201 and GA 216, reinforcing tape, joint compound, adhesive, and water.
- F. Fasteners: ASTM C1002 Type W nails. ASTM C1002 Type S12 hardened screws. GA 216.
- G. Adhesive: ASTM C557, GA 216.
- H. Aluminum Wall Corner Guards: Contractor is to install brushed aluminum corner guards at all outside sheetrock corners. At outside corners where there is a chairrail and no wainscot the corner guard shall stop at the bottom of the chairrail. At outside corners where there is no chairrail, the corner guard shall stop at a height of 42 inches.

PART 3 EXECUTION

3.01 INSTALLATION - METAL STUDS

- A. Install studding in accordance with ASTM C754. GA-201, GA-216, GA-600 and manufacturer's instructions.
- B. Metal Stud Spacing: 16 inches o.c., unless otherwise required or called for in drawings.
- C. Partition Heights: For non-rated or non-acoustical walls, to 6 inches above suspended ceilings. For fire-rated or acoustical walls, full height to floor or roof construction above. Install additional bracing for partitions extending above ceiling as required. Provide additional bracing to adjacent structure at all openings.

3.02 INSTALLATION - WALL FURRING

- A. Erect freestanding metal stud framing tight to Brick walls; attached by adjustable furring brackets in accordance with manufacturer's instructions. Erect horizontally or vertically for desired application.
- B. Space furring maximum 16 inches on center, not more than 4 inches from floor and ceiling lines.
- C. Install insulation between furring attached to Brick walls in accordance with manufacturer's instructions.
- D. Install furring as required for fire resistance ratings indicated.

3.03 INSTALLATION - CEILING FRAMING

- A. Install in accordance with ASTM C754. GA-216 and manufacturer's instructions.
- B. Coordinate location of hangers with other work. Install ceiling framing independent of walls, columns, and above ceiling work.
- C. Reinforce openings in ceiling suspension system that interrupt main carrying channels or furring channels, with lateral channel bracing.
- D. Laterally brace entire suspension system.

3.04 INSTALLATION - ACOUSTICAL ACCESSORIES

- A. Install resilient channels at maximum 24 inches on center. Locate joints over framing members.
- B. Place acoustical insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions, and tight to items passing through partitions.
- C. Install acoustical sealant within partitions in accordance with manufacturer's instructions.

3.05 INSTALLATION - GYPSUM BOARD

- A. Install gypsum board in accordance with GA-201, GA-216 and GA-600, and manufacturer's instructions.
- B. Fasten gypsum board to furring or framing with screws. Staples may only be used when securing the first layer of double layer applications.
- C. Place control joints consistent with lines of building spaces as indicated or as directed.

- D. Place corner beads at external corners as indicated or as directed. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.
- E. Treat cut edges and holes in moisture resistant gypsum board and exterior gypsum soffit board with sealant.

3.06 JOINT TREATMENT

- A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
- B. Feather coats onto adjoining surfaces so that camber is maximum 1/32 inch.
- C. Taping, filling, and sanding are not required at surfaces behind adhesive applied marble tile and granite.
- D. Provide joint treatment materials complying with ASTM C 475 and the recommendations of both the manufacturer of sheet products and of joint treatment materials for each application.

3.07 TOLERANCES

- A. Maximum Variation from True Flatness: 1/8 inch in 10 feet in any direction.

END OF SECTION - 09260