

## **DIVISION 9 - FINISHES**

### **SECTION 09260 - GYPSUM BOARD SYSTEMS**

#### **PART 1 GENERAL**

##### **1.01 WORK INCLUDED**

- A. Metal stud wall framing.
- B. Metal channel ceiling framing.
- C. Acoustic insulation.
- D. Gypsum board.
- E. Taped and sanded joint treatment.

##### **1.02 RELATED WORK**

##### **1.03 Section 05400 - Cold Formed Metal Framing.**

- A. Section 07213: Thermal insulation.
- C. Section 08111 - Standard Steel Doors and Frames.
- D. Section 08305 - Access Doors: Metal access panels.
- E. Section 09111 - Metal Stud Framing System.
- F. Section 09900 - Painting.

##### **1.05 REFERENCES**

- A. ANSI/ASTM C36 - Gypsum Wallboard.
- B. ANSI/ASTM C79 - Gypsum Sheathing Board.
- C. ANSI/ASTM C442 - Gypsum Backing Board.
- D. ANSI/ASTM C475 - Joint Treatment Materials for Gypsum Wallboard Construction.
- E. ANSI/ASTM C557 - Adhesive for Fastening Gypsum Wallboard.
- F. ANSI/ASTM C630 - Water Resistant Gypsum Backing Board.

- G. ANSI/ASTM C645 - Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
  - H. ANSI/ASTM C646 - Steel Drill Screws for the Application of Gypsum Sheet Material to Light Gage Steel Studs.
  - I. ANSI/ASTM C754 - Installation of Framing Members to Receive Screw Attached Gypsum Wallboard, Backing Board, or Water Resistant Backing Board.
  - J. ANSI/ASTM E90 - Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
  - K. ANSI/ASTM E119 - Fire Tests of Building Construction and Materials.
  - L. FS HH-I-521 - Insulation Blankets, Thermal (Mineral Fiber, for Ambient Temperatures).
  - M. GA-201 - Gypsum Board for Walls and Ceilings.
  - N. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board.
- 1.06 SYSTEM DESCRIPTION
- A. Acoustic Attenuation for Interior Partitions in accordance with ANSI/ASTM E90.
- 1.07 QUALITY ASSURANCE
- A. Applicator: Company specializing in gypsum board systems work with 5 years documented experience approved by manufacturer.
- 1.08 SUBMITTALS
- A. Submit product data under provisions of Section 01300.
  - B. Provide product data on metal framing, gypsum board, joint tape.
  - C. Submit samples under provisions of Section 01300.
  - D. Submit manufacturer's installation instructions under provisions of Section 01300.

## PART 2 PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS - GYPSUM BOARD SYSTEM

- A. Gold Bond or equal.

### 2.02 FRAMING MATERIALS

- A. Studs and Tracks: ANSI/ASTM C645; GA 201 and GA 216; galvanized sheet steel.
- B. Furring, Framing and Accessories: ANSI/ASTM C645.
- C. Fasteners: ANSI/ASTM C514.
- D. Adhesive: ANSI/ASTM C557.

### 2.03 GYPSUM BOARD MATERIALS

- A. Standard Gypsum Board: ANSI/ASTM C36; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.
- B. Fire Rated Gypsum Board: ANSI/ASTM C36; fire resistive type, UL rated; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.
- C. Moisture Resistant Gypsum Board: ANSI/ASTM C630; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.

### 2.04 ACCESSORIES

- A. Acoustical Insulation: FS-HH-I-521; preformed mineral wool, friction fit type without integral vapor barrier membrane.
- 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 U exposed reveal bead.
- E. Joint Materials: ANSI/ASTM C475; reinforcing tape, joint compound, adhesive, water, and fasteners.

## PART 3 EXECUTION

### 3.01 INSPECTION

- A. Verify that site conditions are ready to receive work.
- B. Beginning of installation means acceptance of existing surfaces and substrate.

### 3.02 METAL STUD INSTALLATION

- A. Install studding in accordance with ANSI/ASTM C754.
- B. Metal Stud Spacing: 16 inches on center.
- C. Partition Heights: Full height to floor or roof construction above. Install additional bracing for partitions extending above ceiling.
- D. Door Opening Framing: Install double studs at door frame jambs. Install stud tracks on each side of opening, at frame head height, and between studs and adjacent studs.
- E. Blocking: Bolt or screw steel channels to studs. Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories, etc.
- F. Coordinate installation of bucks, anchors, blocking, electrical and mechanical work placed in or behind partition framing.

### 3.03 WALL FURRING INSTALLATION

- A. Erect wall furring for direct attachment to concrete block and concrete walls.
- B. Erect Z furring channels vertically. Secure in place on alternate channel flanges at maximum 24 inches on center.
- C. Space furring channels maximum 24 inches on center, not more than 4 inches from abutting walls.
- D. Install thermal insulation vertically and hold in place with Z-furring channels spaced maximum 24 inches on center, not more than 3 inches at external corners and 12 inches at internal corners.

- E. Erect free-standing metal stud framing tight to concrete masonry walls, attached by adjustable furring brackets in accordance with manufacturer's instructions.

#### 3.04 CEILING FRAMING INSTALLATION

- A. Install in accordance with ANSI/ASTM C754 manufacturer's instructions.
- B. Coordinate location of hangers with other work.
- C. Install ceiling framing independent of walls, columns, and above-ceiling work.

#### 3.05 GYPSUM BOARD INSTALLATION

- A. Install gypsum board in accordance with GA 201 and GA 216 manufacturer's instructions.
- B. Erect single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- C. Erect single layer fire rated gypsum board vertically, with edges and ends occurring over firm bearing.
- E. Use screws when fastening gypsum board to metal furring or framing.
- F. Treat cut edges and holes in moisture resistant gypsum board with sealant.
- G. Place control joints consistent with lines of building spaces as directed.
- H. Place corner beads at external corners as indicated. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

#### 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 is not required at surfaces behind adhesive applied ceramic tile.
- D. Erect in accordance with manufacturer's instructions.

### 3.10 TOLERANCES

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

END OF SECTION