SECTION 09260

GYPSUM BOARD SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:
   1. Metal framing required for gypsum board.
   2. Gypsum board.
   3. Acoustical insulation.
   4. Acoustical sealant.
   5. Ceramic tile substrate.
   6. Shaft wall systems.

B. Related Sections:
   1. Section 06100 - Rough Carpentry: Wood furring and blocking.
   2. Section 05400 - Cold Formed Metal Framing.
   3. Section 07210 - Building Insulation: Thermal insulation.
   4. Section 08100 - Metal Doors and Frames: Hollow metal frames.
   5. Section 09300 - Ceramic Tile.
   6. Section 09900 - Painting.

1.2 SUBMITTALS:

A. Manufacturer's Data:
   1. Certification Requirements:
      a. Certify that products furnished for this project are asbestos free.
      b. Certify that products meet or exceed specification requirements.

USE OF GYPSUM BOARD WINDOW SILLS IS UNACCEPTABLE.
2. Indicate compliance with specified fire or sound ratings.

3. Indicate stud height limitations.

4. **LEED MRc4: Recycled Content**
   Provide a statement from the manufacturer including recycled content percentage, by weight, and whether the recycled content is post-consumer or post-industrial.

1.3 **QUALITY ASSURANCE:**

   A. **Industry Standard:** Comply with applicable requirements of ASTM C840, "Application and Finishing of Gypsum Board" by the Gypsum Association, except where more detailed or more stringent requirements are indicated, including the recommendations of the manufacturer.

   B. **Allowable Tolerances:** 1/16" offset between planes of board faces and 1/4" in 8'-0" for plumb, level, warp, and bow.

   C. **Manufacturer:** Obtain each type of gypsum board and related joint treatment materials from a single manufacturer.

      A. Comply with applicable requirements of Mountain States Bureau of Lath, Plaster and Drywall, Inc.

**PART 2 - PRODUCTS**

2.1 **MANUFACTURERS:**

   A. Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include the following:

      1. Metal Support Materials:
         a. Clark Western Building Systems
         b. Dietrich Industries, Inc.
         c. USG Interiors, Inc.

      2. Direct Suspension Systems:
a. Georgia-Pacific Corp.
b. Donn Corporation.
c. National Rolling Mills Co.
d. USG Interiors, Inc.

3. Gypsum Board and Related Products:
   a. Georgia-Pacific Corp.
   c. United States Gypsum Co.

B. All catalog numbers and trade names used in this Section are those of United States Gypsum, unless otherwise noted, and are to establish continuity and a standard of quality.

2.2 MATERIALS:

A. Gypsum Board:

1. 5/8" regular, tapered edge Type X gypsum board complying with ASTM C36.

2. 5/8" Type X gypsum sheathing board, square edges complying with ASTM C79.

3. 5/8" water resistant Type X, tapered edge gypsum backing board complying with ASTM C630.

4. 5/8" water resistant, tapered edge, exterior gypsum soffit board complying with ASTM C931.

5. Fire-Rated Shaft Enclosures:
   a. Fire-tested and rated assembly of "C-H" or "I" studs at 24" o.c.
b. Provide assembly having 2-hour fire rating or rating required by Applicable Code, whichever is greater.

6. **LEED MRC4: Recycled Content**
   Include recycled content in material.

   **A. Partitions:**
   1. Studs: ASTM C645; 25 gage x 3.625” deep, except as otherwise indicated, or required by height. Maintain deflection of L/240 or less without gypsum board applied.
      a. Use 20 gage or heavier studs at tile backing and at door jambs. Use double studs at door jambs.
   2. Space all studs 16” o.c. maximum, unless specifically approved otherwise.
   3. Double studs to structure at doors and as needed at corners to stiffen and support.

   **B. Ceilings:**
   1. ASTM C754. Use 1.5” steel channels, 0.475 lb. per ft., cold-rolled.

   **C. Furring Members:** ASTM C645; 25 gage, hat-shaped or z-shaped as required.

   **D. Acoustical Sealant:** Non-shrinking, non-drying, non-migrating and non-staining type formulated for acoustical use.

**LEED EQc4: Low-Emitting Materials.**
Sealant shall meet or exceed the VOC limits of South Coast Air Quality Management District rule #1168 and sealants used as fillers must meet the requirements of the Bay Area Air Quality Management District, Regulation 8, Rule 51.

Use one of the following:

1. Pecora BA-98.
2. Tremco Acoustical Sealant.

**RATING OF SHAFT TO BE DETERMINED BY ARCHITECT’S CODE REVIEW.**
4. Approved substitute.

E. Sound Attenuation Blankets: ASTM C665, Type I, semi-rigid mineral or glass fiber blanket without membrane, Class 25 flame-spread. Provide 1.5” mineral fiber 3.0 lb. density or full thickness of 1.0 density glass fiber.

F. Ceramic Tile Substrate:
1. 7/16” thick glass mesh reinforced cementitious board, "Wonderboard" as manufactured by Modulars, Inc. or "Durock" by USG Industries, Inc.
2. Install cementitious board substrate instead of gypsum board at ceramic tile wall locations.

G. Joint Treatment: Durabond 90 by U.S. Gypsum Co. or approved substitute.

D. Accessories: ASTM C840 as follows:
1. Provide corner beads at all external corners, CB-118 x 118.
2. LC-58 at all termination edges exposed to view.
3. L-58 at all termination edges abutting another material.
4. Expansion/control joints as recommended by manufacturer to be located by Architect approved substitute to No. 093 by U.S. Gypsum.

PART 3 - EXECUTION

3.1 ACOUSTICAL SEALANT:
A. Explain clearly where sealant is to be used.
B. Provide sealant at all joints between drywall system and adjoining materials.

3.2
A. Gypsum Board Finish Levels: Finish panels to levels indicated below, according
to ASTM C 840, for locations indicated:

1. Level 1: Embed tape at joints in ceiling plenum areas, concealed areas, and where indicated for fire-resistance-rated assemblies and sound-rated assemblies.

2. Level 2: Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges where panels are substrate for thin set ceramic tile, acoustical tile, and where indicated.

3. Level 3: Embed tape and apply separate first and fill coats of joint compound to tape, fasteners, and trim flanges. Level 3 is suitable for surfaces receiving medium or heavy textured finishes before painting of wall covering in conditions where lighting conditions are not critical.

4. Level 4: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Level 4 is suitable for surfaces receiving light-textures finish, wall coverings, and flat paints. It is generally the standard exposed finish.

5. Level 5: Embed tape and apply separated first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges, and apply skim coat of joint compound over entire surface. Level 5 is suitable for surfaces receiving gloss enamels and surfaces subject to severe lighting. It is considered a high quality gypsum board finish reserved for only special applications.

ACCESSORIES:

A. Explain clearly where gypsum drywall and accessories must allow for sealant joints.

END OF SECTION 09260