SECTION 09250
GYPSUM BOARD SYSTEMS

PART 1  GENERAL

1.1 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.

1.2 SECTION INCLUDES:

A. Gypsum Board Partition Systems.
B. Gypsum Board Accessories.
C. Joint Treatment.
D. Textured Finish.

1.3 REFERENCES:

L. GA-216 – Recommended Specifications for the Application and Finishing of Gypsum Board.
N. Florida Building Code.

1.4 SUBMITTALS:

A. Product Data: Submit manufacturer's product data sheets and printed installation instructions for each product or system proposed for use.

1.5 QUALITY ASSURANCE:

A. Perform gypsum board systems work in accordance with recommendations of ASTM C754, C840 and GA-216 except as otherwise specified in this Section.
B. Regulatory Requirements:
   1. Fire-rated Assemblies: Listed and rated by Underwriter's Laboratories, Inc. or generic fire resistance ratings listed in GA-600.
2. Fire-Hazard Classification: Listed and labeled by Underwriter's Laboratories, Inc.

1.6 COORDINATION:

A. Prior to and during installation, coordinate with work of other trades to facilities required openings and finishes.
B. Conduct pre-construction meeting with drywall contractor, architect, owner, project coordinator, and others involved with process.

1.7 DELIVERY, STORAGE AND HANDLING:

A. Store material off floor in dry area to prevent damage from moisture or excessive handling.
B. Follow manufacturers requirements for on site storage and handling of materials.

PART 2 PRODUCTS

2.1 MANUFACTURERS:

A. U.S. Gypsum Co products listed. as a standard of quality.
B. Equivalent products of following manufacturers are acceptable.
   1. National Gypsum Corp
   2. U.S. Gypsum Corp
   3. Georgia-Pacific Corp
   4. Lafarge North America Inc
   5. Other approved equal

2.2 MATERIALS:

B. Gypsum Wallboard (General and above 8' AFF): ⅝" thick, ASTM C36, tapered edge, fire rated Type X. (Note: At radius walls the Contractor has the option to install ¼" and/or ⅜" thick gypsum wallboard in layers.)
C. Gypsum Wallboard (Corridors, stairways, cafeteria, stage, and gymnasium up to at least 8' AFF minimum): Abuse resistant brand, ⅝" thick, ASTM C36, tapered edge, fire rated Type X. (Note: At radius walls the Contractor has the option to install ¼" and/or ⅜" thick gypsum wallboard in layers.)
   1. Acceptable abuse resistant drywall:
      a. Fiber Rock VHI by USG.
      b. Abuse-Resistant Gypsum Wallboard by National Gypsum.
      c. DensArmor by Georgia Pacific.
      d. Protecta AR 100 by Lafarge.
      e. Or approved equal.
D. Water Resistant Gypsum Wallboard (MR Green Board): ⅝" thick, ASTM C630, tapered edge. Provide at all “wet” areas (areas subject to contact with water), whether shown or not shown.
E. Exterior Gypsum Soffit Board: Standard or Fire Rated type, tapered edges, ends square cut, ASTM C931.
F. Gypsum Backing Board: Standard or Fire Rated type, square edges, ASTM C442.
G. Gypsum Sheathing: ½" thick exterior water resistant board for metal framing systems with book tongue and grooved edges. Acceptable product shall be DENS-GLASS GOLD.
H. Compounds: Pre-fill powdered joint compound, laminating adhesive, taping compound and
topping compound, ASTM C475.
I. Joint Tape: Perforated tape, ASTM C475.
J. Fasteners: Self-drilling, self-tapping bugle head screws, Type S12 and GA 216, length required
for each assembly.
K. Metal Accessories:
L. Interior Expansion Joint Covers: Balco Inc. or equal;
   1. Walls: Type 6ADW-1 and 6ADWC-1 or type as recommended by manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION:

A. Examine adjacent construction for conditions that would prevent proper installation of drywall
systems.
B. Do not proceed until defects are corrected.

3.2 METAL FRAMING INSTALLATION:

A. General:
   1. Install metal framing in accordance with ASTM C754 except as otherwise specified.
   2. Install members true to lines and levels to provide surface flatness with maximum variation
      of \( \frac{1}{8} \)" in 10' in any direction.
   3. Install metal studs at 16" o.c. unless noted otherwise.
B. Metal Furring Channels
   1. Secure to masonry walls and around door and window openings, intersections, and corners
      with low velocity power driven anchors.
   2. Install metal furring at 16" o.c. vertically.
   3. Extend furring on exterior walls full height of wall.

3.3 GYPSUM BOARD SYSTEM INSTALLATION:

A. Install in strict accordance with GA-201, GA-216 and GA-600, do not install until building is
dried in.
B. Maximum variation in flatness \( \frac{1}{8} \)" in 10'.
C. Install sound-attenuation blankets, where indicated, prior to installing gypsum panels unless
blankets are readily installed after panels have been installed on one side.
D. Install ceiling board panels across framing to minimize the number of abutting end joints and to
avoid abutting end joints in the central area of each ceiling. Stagger abutting end joints of
adjacent panels not less than one framing member.
E. Install gypsum panels with face side out. Do not install imperfect, damaged, or damp panels.
   Butt panels together for a light contact at edges and ends with not more than 1.5 mm (1/16") of
   open space between panels. Do not force into place.
F. Locate both edge or end joints over supports, except in ceiling applications where intermediate
supports or gypsum board back blocking is provided behind end joints. Do not place tapered
edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Avoid
joints other than control joints at corners of framed openings where possible.
G. Attach gypsum panels to steel studs so leading edge or end of each panel is attached to open
(unsupported) edges of stud flanges first.
H. Attach gypsum panels to framing provided at openings and cutouts.
I. Spot grout hollow metal doorframes for solid-core wood doors, hollow metal doors, and doors over 800 mm (32") wide. Apply spot grout at each jamb anchor clip and immediately insert gypsum panels into frames.
J. Form control and expansion joints at locations indicated and as detailed, with space between edges of adjoining gypsum panels, as well as supporting framing behind gypsum panels.
K. Cover both faces of steel stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases that are braced internally.
   1. Except where concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 0.7 sm (8 sf) in area.
   2. Fit gypsum panels around ducts, pipes, and conduits.
   3. Where partitions intersect open concrete coffers, concrete joists, and other structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffers, joists, and other structural members; allow 6.4- to 9.5-mm- (¼" - ⅜") wide joints to install sealant.
L. Isolate perimeter of non load-bearing gypsum board partitions at structural abutments, except floors, as detailed. Provide 6.4- to 12.7-mm- (¼" - ½") wide spaces at these locations and trim edges with U-bead edge trim where edges of gypsum panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
M. Where STC-rated gypsum board assemblies are indicated, seal construction at perimeters, behind control and expansion joints, openings, and penetrations with a continuous bead of acoustical sealant including a bead at both faces of the partitions. Comply with ASTM C 919 and manufacturer's recommendations for location of edge trim and closing off sound-flanking paths around or through gypsum board assemblies, including sealing partitions above acoustical ceilings.
N. Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's recommendations.

3.4 ACCESSORIES INSTALLATION:

A. Corner Beads: Install on external corners, with screws spaced 8" o.c. both sides.
B. Metal Trim: Install over face-layer gypsum board with fasteners spaced 8" o.c. Install where gypsum board surfaces meet dissimilar surfaces and at other detailed locations.

3.5 JOINT TREATMENT:

A. Treat joints, interior angles, fastener depressions and finishing trim on face-layer gypsum board, including gypsum board in ceiling plenums.
B. Pre-fill, tape, fill and finish in accordance with manufacturer's directions.
C. Apply a thin skim coat of joint compound over entire surface of gypsum board.
D. Sand finish coat and leave surfaces smooth, uniform, and free of fins, depressions, cracks and other imperfections.

END OF SECTION