

**SECTION 06 16 43
EXTERIOR GYPSUM SHEATHING**

PART 1 - GENERAL

1.01 SCOPE:

- A. Provide all of the labor, materials, equipment, and services to furnish and install the exterior gypsum sheathing.

1.02 REFERENCE STANDARDS:

- A. ASTM C79 - Gypsum Sheathing Board.
- B. ASTM C646 - Steel Drill Screws for Application of Gypsum Sheet Material to Light Gage Steel Studs.
- C. ASTM C1179 - Grass Mat Substrate for Use as Sheathing.
- D. ASTM D828 - Tensile Breaking Strength of Paper and Paperboard.
- E. ASTM E84 - Surface Burning Characteristics of Building Materials.
- F. ASTM E119 - Method for Fire Tests of Building Construction and Materials.
- G. ASTM E283 - Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
- H. ASTM E398 - Water Vapor Transmission Rate of Sheet Materials Using a Rapid Technique for Dynamic Measurement.
- I. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board.
- J. UBC - Uniform Building Code Standard 47-10 "Gypsum Sheathing Board".

1.03 QUALITY ASSURANCE:

- A. Manufacturer: Firm with minimum 5 years experience in successfully producing gypsum sheathing similar to that indicated for this project.

1.04 SUBMITTALS:

- A. Prior to commencement of work, submit to the Architect for review the following:
 - 1. Manufacturer's data indicating full compliance with the requirements of this Section.

1.05 DELIVERY, HANDLING AND STORAGE:

- A. Products shall be delivered to job site in original unopened packages bearing manufacturer's labels.
- B. Store materials inside, under cover, in a dry place.
 - 1. Stack gypsum board flat, off the floor, on boards.
 - 2. Support gypsum boards to prevent sagging.

PART 2 - PRODUCTS

2.01 GYPSUM SHEATHING:

- A. Product/manufacturer:
 - 1. Dens-Glass Gold as manufactured by Georgia-Pacific.
 - 2. Gold Bond EXP Extended Exposure Sheathing as manufactured by National Gypsum.
 - 3. Or an approved equal.
- B. Description:
 - 1. Square edged water and fire resistant, silicone treated core penetrated by fiberglass mats both sides complying with ASTM C1177.
 - 2. Width: 48".
 - 3. Thickness: 5/8".

2.02 ACCESSORIES:

- A. Screws: For fastening to metal, use 1-1/4" minimum No. 6, self-tapping, Type S or S-12 wafer or bugle head, corrosion-resistant screws complying with ASTM C646, unless otherwise recommended by the gypsum board manufacturer.
- B. Nails: For fastening into wood use 11 gauge, 7/16" head galvanized nails, 1-1/2" long for 1/2" sheathing.
- C. Sealing tape:
 - 1. 2" wide 10 x 10 woven threads per inch self-adhering fiberglass joint.
 - 2. Shall be approved by the sheathing manufacturer to provide long term protection.
- D. Sealant/caulk for long term joint protection: Use one of the following.
 - 1. Pecora AC-20 acrylic latex sealant.
 - 2. GE Silicone Silpruf Sealant.
 - 3. Tremco Dymonic.

PART 3 - EXECUTION

3.01 INSTALLATION:

- A. Perform sheathing work in accordance with manufacturer's recommendations.
- B. Application of Dens-Glass Gold Sheets:
 - 1. Install with gold side out in maximum lengths possible to minimize number of joints.
 - 2. Locate edge joints parallel to and located on framing.
 - 3. Stagger intermediate end joints of adjacent lengths of sheathing.
 - 4. For metal framing space screws 8" o.c. at perimeter and 8" o.c. in field.
 - 5. Drive fasteners to bear tight against and flush with surface of sheathing. Do not countersink.
 - 6. Locate fasteners 3/8" minimum from edges and ends of sheathing panels.
- C. Apply sealant around sheathing perimeter at interface with other materials and install flexible flashing as indicated on Drawings.

- D. Apply seam sealing tape along all edges, overlapping at intersections by width of the tape. Apply 2" x 2" seam seal squares to all exposed fasteners. Apply approximately a 3/8" bed of caulk along the joint. Embed the caulk into the entire surface of the tape with a trowel. Apply enough caulk to each exposed fastener to cover completely when troweled smooth.

- END OF SECTION -