

SECTION 09255
GYPSUM BOARD SHEATHING

PART 1 - GENERAL

1.01 PROVISION INCLUDED

- A. The general provisions of the Contract, including General and Supplementary Conditions and Division 1 General Requirements, apply to work specified in this section this Section.

1.02 SUMMARY

- A. Work includes gypsum board sheathing applied to steel stud framing.
- B. Related Work Specified in Other Sections:
 - 1. Steel framing systems for support of gypsum sheathing: Section 05410.
 - 2. Air/weather barrier applied to gypsum sheathing backup for exterior insulation and finish system, including sheathing joint treatment: Section 07240.
 - 3. Air barrier applied to gypsum sheathing backup for brick veneer, including sheathing joint treatment: Section 07270.

1.03 REFERENCED STANDARDS

- A. American Society for Testing and Material (ASTM): ASTM C1177, "Specification for Glass-Mat Gypsum Substrate for Use as Sheathing."

1.04 SUBMITTALS

- A. Product data: Manufacturer's specifications, installation and maintenance instructions.

1.05 QUALITY ASSURANCE:

- A. Source Limitations: Obtain all sheathing boards from a single manufacturer.
- B. Mock-Up: Provide sheathing and building felt component of masonry mock-up specified in Section 04810.

1.06 SEQUENCING AND SCHEDULING

- A. Schedule sheathing joint treatment specified in Division 7 sections so that it occurs promptly after installation of the sheathing, to prevent close in the building and to protect gypsum sheathing against water damage at edges.

1.07 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 boards flat to prevent sagging.
- C. After installation, do not leave gypsum sheathing exposed to weather for more than 30 days.

PART 2 - PRODUCTS

2.01 GLASS FIBER FACED GYPSUM SHEATHING BOARDS

- A. Glass-Fiber-Surfaced Gypsum Sheathing Board: ASTM C1177; gypsum sheathing board consisting of noncombustible, water-resistant gypsum core, surfaced on face and back with inorganic glass fiber mats and alkali-resistant coating, and as follows:
 - 1. Thickness: 5/8 inch.
 - 2. Size: 4 feet wide by manufacturer's standard 8', 9' or 10' length; select length to suit story heights and minimize number of end-to-end joints.
 - 3. Type: Regular, except Type X where shown and where required to meet fire-resistance standard.
 - 4. Edge Profile: Square edge.
- B. Basis of Specification: G-P Gypsum Corporation "Dens-Glas Gold."

2.02 FASTENERS

- A. Fasteners: Corrosion-resistant screws with bugle-shaped head, self-drilling points; minimum 1-1/4" long for 5/8" sheathing.
 - 1. For studs less than 0.033 inch thick (24 gauge and lighter): ASTM C1002 with Type "S" points; equal to U.S.G. "Super-Tite Screws."
 - 2. For studs 0.033 to 0.112 inch thick (22 to 12 gauge): ASTM C954; equal to U.S.G. "Super-Tite Driller Screws."

2.03 JOINT SEALANTS AND TAPE

- A. Specified in Division 7 Sections; see "Related Work."

PART 3 - EXECUTION

3.01 EXAMINATION

- A. With Installer present, examine the framing to which sheathing is to be attached, and the conditions under which the panels are to be installed. Examine framing, for compliance with installation tolerances. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 TOLERANCES FOR SHEATHING

- A. Walls: For plumbness, levelness, and flatness, do not exceed a variation of 3/16" in 8'-0", and 1/8" in 4'-0" (all directions).
- B. Ceilings: Level to within 1/8 inch in 12 ft. in all directions.
- C. Joints between panels: Do not exceed 1/16" offset of planes.
- D. Shim panels as necessary to comply with tolerances.

3.03 INSTALLATION OF GYPSUM SHEATHING BOARDS

- A. Install gypsum sheathing in accordance with ASTM C 840, except where these specifications or sheathing manufacturer's recommendations are more stringent.
- B. Coordinate sheathing installation with flashing and joint sealant installation so these materials are installed in the sequence and manner that prevent exterior moisture from passing through completed exterior wall assembly.
- C. Install sheathing boards with coated side facing exterior, either vertically or horizontally, at Contractor's option if not indicated on Drawings, with with ends or long edges centered over flanges of steel studs. Butt ends and edges of each board closely with those of adjacent boards, but do not force boards together. Screw-attach boards at perimeter and within field of board to each steel stud with power-driven screws spaced approximately 8 inches (200 mm) o.c. and set back a minimum of 3/8 inch (9 mm) from edges and ends of boards. Drive screws so bottoms of heads are flush with surface of sheathing to provide firm contact between sheathing and framing, but do not overdrive fasteners.
- D. Neatly scribe and cut sheathing as required to fit and ends and around openings and cutouts. At openings and cutouts fasten gypsum board to supplementary framing and blocking provided for additional support.
- E. Do not bridge building expansion joints with sheathing; cut and space edges to match spacing of structural support elements.
- F. Joint Treatment: Specified in Sections 07240 and 07270. Seal joints promptly after installation of sheathing.

3.04 CLEAN UP

- A. Keep work areas clean and free of debris by daily sweeping. At the completion of work, remove gypsum sheathing scraps and rake or sweep area around the construction area.

3.05 REPLACEMENT OF DAMAGED SHEATHING

- A. Protect gypsum sheathing from damage until exterior wall finish is installed.

1. If gypsum sheathing is damaged by weather or by subsequent construction, remove and replace it at Contractor's expense.
2. If gypsum sheathing is exposed to the weather for more than 30 days without being covered by building felt, the sheathing shall be deemed to be damaged by weather, whether or not such damage is visible. Remove and replace it, at Contractor's expense, before installing building felt or exterior wall finishes.

END OF SECTION 09255