

GUIDE SPECIFICATION

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SECTION 061640

GYPSUM SHEATHING

PART 1 - GENERAL

This guide specification has been prepared by American Gypsum, in printed and electronic media, as an aid to specifiers in preparing written construction documents for gypsum sheathing.

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [_____] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. Where a value, word, or phrase is followed by a bracket, the preferred value, word, or phrase occurs first, with the other choices following inside the brackets. This section may include performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format standards references to section names and numbers are based on MasterFormat 2012.

For specification assistance on specific product applications, please contact our offices above or any of our local product representatives throughout the country.

American Gypsum reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted to the manufacturer's web site and/or in printed matter as they occur. American Gypsum makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Gypsum sheathing board.
- 1.2 DEFINITIONS
 - A. Gypsum Board Construction Terminology Standard: Refer to ASTM C 11 for definitions of terms for gypsum sheathing board construction not defined in this Section or in other referenced standards.

Include submittal requirements below which are consistent with the scope of the project and extent of work of this section. Only request submittals which are necessary for review of design intent.

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings.

Delete LEED submittals for projects not seeking LEED certification.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. [LEED Submittals:
 - 1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.
 - a. Include statement indicating costs for each product having recycled content.
 - 2. Product Data for Credit EQ 4.1: For adhesives and sealant used to laminate gypsum board panels to substrates and for sealing joints, including printed statement of VOC content.
 - 3. Product Data for Credit MR 5: Identify each regional material along with the location of its harvest, extraction, or manufacture. Include material cost for each item.]

1.4 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Fire-Resistance Ratings: Indicated by design designations from GA-600, "Fire Resistance Design Manual."

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, or other causes. Stack sheathing flat on leveled supports off the ground, under cover, and fully protected from weather.

Use first choice for paper gypsum sheathing. Use 2nd choice for fiberglass faced sheathing

1.6 COORDINATION

- A. Gypsum Sheathing Board:
 - 1. Do not leave exposed to weather for more than [30 days] [12 months].

PART 2 - PRODUCTS

Select 2.1A for paper faced gypsum sheathing. Select 2.1B for fiberglass faced gypsum sheathing.

2.1 [WALL SHEATHING

- A. Paper-Surfaced Gypsum Wall Sheathing: ASTM C 1396/C 1396M / ASTM C 79/C 79M, exterior gypsum sheathing; with water-resistant-treated core and with water-repellent paper bonded to core's face, back, and long edges.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. American Gypsum.

Make selections below based on project requirements.

- 2. Type, Thickness, Size:
 - a. [Regular, 1/2 inch (12.7 mm), 24 inches in width (610 mm) for horizontal application, square edges.
 - b. [Regular, 1/2 inch (12.7 mm), 48 inches in width (1219 mm) for vertical application, square edges.
 - c. [Type X, 5/8 inch (16 mm), 48 inches in width (1219 mm) for vertical application, square edges.
 - d. Acceptable Product: Exterior Gypsum Sheathing.]

- B. [Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M, exterior gypsum sheathing with fiberglass facing and water resistant treated core.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. American Gypsum.

Make selections below based on project requirements.

2. Type, Thickness, Size:
 - a. [Regular, 1/2 inch (12.7 mm), 48 inches in width (1219 mm) for vertical application, square edges.
 - b. [Type X, 5/8 inch (16 mm), 48 inches in width (1219 mm) for vertical application, square edges.
 - c. Acceptable Product: M-Glass Exterior Sheathing.]

2.2 ACCESSORY MATERIALS

- A. Fasteners: Steel drill screws, in length recommended by sheathing manufacturer for thickness of sheathing board to be attached, with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.
 1. For steel framing from 0.033 to 0.112 inch(0.84 to 2.84 mm) thick, attach sheathing with drill screws complying with ASTM C 954.

2.3 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS

- A. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant complying with ASTM C 834, compatible with sheathing tape and sheathing and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners.

PART 3 - EXECUTION

3.1 GYPSUM SHEATHING INSTALLATION

- A. Comply with GA-253 and manufacturer's written instructions.
- B. Cut boards at penetrations, edges, and other obstructions of work; fit tightly against abutting construction, unless otherwise indicated.
 1. Install boards with a 3/8-inch(9-mm) setback where non-load-bearing construction abuts structural elements.
 2. Install boards with a 1/4-inch(6.4-mm) setback where they abut masonry or similar materials that might retain moisture, to prevent wicking.
- C. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed exterior wall assembly.
- D. Apply fasteners so screw heads bear tightly against face of sheathing boards but do not cut into facing.
- E. Do not bridge building expansion joints with sheathing; cut and space edges to match spacing of structural support elements.
- F. Horizontal Installation: Install sheathing with V-grooved edge down and tongue edge up. Interlock tongue with groove to bring long edges in contact with edges of adjacent boards without forcing. Abut ends of boards over centers of stud flanges, and stagger end joints of adjacent boards not less than one stud spacing. Screw-attach boards at perimeter and within field of board to each steel stud.
 1. Space fasteners approximately 8 inches(200 mm) o.c. and set back a minimum of 3/8 inch(9 mm) from edges and ends of boards.
 - a. Decrease spacing between fasteners where required to comply with design wind loads, and as indicated in shop drawings submitted under Section 05400.
- G. Vertical Installation: Install board vertical edges centered over flanges of steel studs. Abut ends and edges of each board with those of adjacent boards. Screw-attach boards at perimeter and within field of board to each steel stud.
 1. Space fasteners approximately 8 inches(200 mm) o.c. and set back a minimum of 3/8 inch(9 mm) from edges and ends of boards.
 - a. Decrease spacing between fasteners where required to comply with design wind loads, and as indicated in shop drawings submitted under Section 05 40 00.

2. For sheathing under stucco cladding, boards may be initially tacked in place with screws if overlying self-furring metal lath is screw-attached through sheathing to studs immediately after sheathing is installed.
- H. Seal sheathing joints according to sheathing manufacturer's written instructions.
1. Apply elastomeric sealant to joints and fasteners and trowel flat. Apply sufficient amount of sealant to completely cover joints and fasteners after troweling. Seal other penetrations and openings.

END OF SECTION