

Substitution Request 1/2" Exterior Gypsum Sheathing

Pre-Bid	After Bid				
Project:		Substitu	tion Requ	est #:	
		From:			
		Date:			
To:		A/E Proj	ect Numb	er:	
		Contract	For:		
Specification Title	:	Descript	ion:		
Section:	Page:		Article/Pa	aragraph:	
Proposed Substitu	ıtion: 1/2" Exteri	ior Gypsun	n Sheathi	ing	
Manufacturer: Ar	merican Gypsum	Company	LLC	Phone: (8	866) 439-5800
Address: 5960 B	Berkshire Lane, S	te 800, Da	allas TX, 🛚	75225	-
Installer:	Add	ress:			
Phone:	Ema	ail:			
History: New	Product 2-5	Years	5-10	Years	10+ Years
Differences between	en proposed subst	citution and	specified	product:	
Reason for not pro	oviding specified it	em:			
Similar Installatio	n:				
Project:		A	rchitect:		
Address:		0	wner:		
	Date Installed:				
Proposed substitu	tion affects other _l	parts of wo	rk:		
No	Yes, Explain				
Supporting Data A	Attached:				
Drawings	Product Data	Samples	Tests	Reports	Other

The undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to the specified product.
- The same warranty will be furnished for the proposed substitution as for the specified product.
- The same maintenance service and source of replacement parts, as applicable, is available.
- The proposed solution will have no adverse effect on other trades and will not affect or delay the progress schedule.
- The proposed substitution does not affect dimensions and functional clearances.
- Coordination, installation, and changes in the Work as necessary for accepted substation will be complete in all respects.

Submitted By: Signature: Firm Name: Address:												
						Phone:						
						Attachments:						
						A/E's Review and A	action:					
Substitution Appro	oved – Make Submitta oved as Noted – Make Subs ted – Use specified m est Received Too Late	submittals in titutions. aterials.	accordance with Div									
Signed By:		Da	te:									
Additional Commer	nts:											
Contractor	Subcontractor	Supplier	Manufacturer	A/E	Other							
Upon Completion R Name: Address:	eturn To:											
Phone: Fax:												
rax. Email:												
LIIIdli.	iidii.											

Submittal 06 16 43



EXTERIOR GYPSUM SHEATHING

Dallas, TX 75225 214-530-5500 www.americangypsum.com

Technical Information

1-800-545-6302 ext. 5607 **DESCRIPTION**

Exterior Gypsum Sheathing is a water-resistant product designed for attachment to exterior side-wall framing as an underlayment for various exterior siding materials such as wood, metal or vinyl siding, masonry veneer, stucco, shingles, etc. The panel is manufactured with a wax-treated, water-resistant core faced with water-repellent paper on both face and back surfaces and long edges.

Exterior Gypsum Sheathing is available in a 1/2" & 5/8" thick, 4' wide square edge product. 5/8" Exterior Gypsum Sheathing has a Type X core, for use in fire rated assemblies. American Gypsum products contain no asbestos and no detectable levels of formaldehyde.

GREENGUARD CERTIFIED Exterior Gypsum Sheathing has achieved UL Environment's GREENGUARD GOLD Certification. GREENGUARD Certified products are scientifically proven to meet some of the world's most rigorous third-party chemical emissions standards. products are scientifically proven to meet some of the world's most rigorous, third-party chemical emissions standards, helping reduce indoor air pollution and the risk of chemical exposure while aiding in the creation of healthier indoor environments. For more information, visit www.ul.com/gg.

BASIC USES

Exterior Gypsum Sheathing is recommended for use in residential or commercial buildings and provides fire resistance and additional structural strength when used under exterior finishes such as wood, metal or vinyl siding, masonry veneer, stucco, shingles, etc. Exterior Gypsum Sheathing is designed for direct attachment to wood or metal framing with approved fasteners. Exposed joints are not intended for finishing with drywall joint compound and tape.

LIMITATIONS

The surface or face of Exterior Gypsum Sheathing is not designed to be finished similar to traditional wallboard nor is it a substrate for the direct application of stucco, paint or textures.

Exterior Gypsum Sheathing should not be used as a nailing base. Application of Exterior Gypsum Sheathing to framing by adhesive only is not recommended. Stud spacing must not exceed 24"o/c.

Exterior Insulation and Finish Systems (EIFS) that incorporate Exterior Gypsum Sheathing are used with either mechanical fasteners or adhesives, depending on the EIFS manufactures recommendations. The performance of EIFS and recommendations for the proper method of attachment are the sole responsibility of the EIFS manufacturer, specifier and or applicator.

Exterior Gypsum Sheathing is not recommended for application to exterior ceilings, soffits or sills.

Exterior Gypsum Sheathing may be stored outside for up to one month, but must be stored off the ground and shall be sheltered from the elements with a protective covering. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging.

Once applied to a structure, Exterior Gypsum Sheathing must not be left exposed to the elements for more than one month. After one month the sheathing must be covered with a weather-resistant barrier (#15 felt or equivalent). The weather-resistant barrier (#15 felt or equivalent) should be applied horizontally with a minimum 2' overlap and immediately anchored with metal lath, masonry ties or corrosion-resistant screws, nails or staples.

Exterior Gypsum Sheathing typically has an average vapor permeance of 20 perms (dry cup method) which allows the passage of water vapor in both directions.

STORAGE AND HANDLING

Exterior Gypsum Sheathing board does not generate or support the growth of mold when it is properly transported, stored, handled,installed, and maintained. However, mold spores are present everywhere and when conditions are favorable; mold can grow

on practically any surface.

Where necessary, Exterior Gypsum Sheathing may be stored outside for up to one month, but must be stored off the ground and shall be sheltered from the elements with a protective covering. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging.

Gypsum board must be protected during transit with a weather-tight cover in good condition. Plastic shipping bags are intended to provide protection during transit only and must be promptly removed upon arrival of the load. Failure to remove the shipping bag can increase the likelihood of developing conditions favorable to the

Exterior Gypsum Sheathing that has visible mold growth must not be used. For additional information refer to Gypsum Association publication, "Guidelines for the Prevention of Mold Growth on Gypsum Wallboard" (GA-238).

Gypsum board shall always be stacked flat - NEVER on edge or end. Gypsum board stacked on edge or end is unstable and presents a serious hazard should it accidentally topple. Gypsum board should be placed so weight is evenly distributed and the floor is not overloaded.

GOOD BUILDING PRACTICES

Installation - The installation of Exterior Gypsum Sheathing should be consistent with methods described in the applicable standards noted below.

The design professional has the ultimate responsibility for location of control joints.

4' wide (1219mm) Exterior Gypsum Sheathing: Apply 4' wide sheathing vertically with vertical edges butting over the center of framing members. Fit sheathing snugly around all openings. Attach sheathing with nails or screws spaced not more then 4"o/c along ends and edges and 8"o/c in the field (staples 3" and 6" respectively). Horizontally applied square edge Exterior Gypsum Sheathing shall be covered with a weather-resistant barrier (#15 felt or equivalent), or horizontal joints sealed at time of application. Horizontal sheathing joints do not require back blocking.

Where shear values are not required, Exterior Gypsum Sheathing 4' (1219mm) wide shall be permitted to be applied parallel or perpendicular to framing. Exterior Gypsum Sheathing applied perpendicular (horizontal) to framing shall be covered with a weather-resistant barrier (#15 felt or equivalent), or horizontal joints shall be sealed at time of application.

Fasteners

Nails - shall be not less than 12 gauge, galvanized, with a minimum 7/16" (11mm) diameter head.

Staples - shall be galvanized steel, not less that 16 gauge and with a minimum 7/16" (11mm) crown.

Screws - standard specification for steel drill screws for the application of gypsum wallboard (ASTM C1002). Type W screws are designed for attachment to wood framing, and Type S screws are designed for attachment to light gage steel framing or wood framing.

Minimum Fastener Lengths For The Attachment Of Exterior Gypsum Shea					r Gypsum Sheathing
	SHEATHING	WOOD FRAMING			STEEL FRAMING
	THICKNESS	Nails	Staples	Screws	Screws
	1/2"	1 1/2"	1 1/2"	1 1/4"	1"
	5/8"	1 3/4"	1 5/8"	1 5/8"	1 1/4"

Fasteners should bear tightly against the face of the sheathing, but should not cut into the face paper. Staples should be driven with the crown parallel to the framing. Fasteners should be no less than 3/8" from the edges and ends of the sheathing.

Shear Values - Shear values for wind or seismic forces based on racking test conducted in accordance with ASTM E 72 on 4' (1219mm) wide Exterior Gypsum Sheath-

ing applied parallel to framing.

Sheathing	Shear Value Ultimate Load lbs/ft		
Thickness	DRY	WET	
1/2"	540	332	
5/8"	654	522	

Where wind or seismic forces require shear walls to resist these lateral forces, most building codes provide allowable shear values for walls having Exterior Gypsum Sheathing applied to wood framing.

Decoration - Not recommended

APPLICABLE STANDARDS

Manufacturing	ASTM C 1396	
Installation	ASTM C 1280 Gypsum Association GA-253 Gypsum Association GA-254 Gypsum Association GA-276	
Surface Burning Characteristics	ASTM E 84 Flame Spread 0 Smoke Developed 0	

PRODUCT DATA

Thickness	Widths	Lengths	Edge Type	UL Type
1/2" (12.7mm)	4' (1219mm)	8' - 12' (2438mm - 3658mm)	Square Edge	
5/8" (15.9)	4' (1219mm)	8' - 12' (2438mm - 3658mm)	Square Edge	AGX-1, AGX-11

Special lengths or edges may be available on special order. Consult your American Gypsum sales representative for details.

Thermal Resistance "R" Value

1/2" = 0.50

5/8" = 0.61

Desired fire rated assemblies are specified from tests performed by independent laboratories. These designs are made up of specific materials in a precise configuration. When choosing construction designs to meet certain fire resistance requirements, vigilance must be taken to insure that each component of the selected assembly is the one specified in the test and are assembled in accordance with the requirements of the assembly.

SUBMITTAL APPROVALS	Job Name:	
	Contractor:	Date: