

# GOLD BOND® BRAND GYPSUM SHEATHING

## MANUFACTURER

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## DESCRIPTION

Gold Bond® BRAND Gypsum Sheathing is a water-resistant panel product designed for attachment to the outside of side-wall framing as a water-resistant underlayment for various exterior siding materials. The sheathing is manufactured with a moisture-resistant core faced with 100% recycled paper on both face and back surfaces and on both long edges. Fire-Shield® (Type X) Sheathing has special additives in the core to enhance its fire-resistive properties.

### BASIC USES

Gypsum Sheathing is designed for attachment to the outside of exterior wall framing as a water-resistant underlayment for various siding materials. Gypsum Sheathing can be used as a sheathing for wood-framed residential construction to provide fire-resistance, weather protection and to add to structural strength when used under exterior finishes such as vinyl siding, clapboard, paneling, masonry veneer, stucco and shingles.

It can also serve as a sheathing for steel-stud commercial construction and as a component in curtainwall systems and exterior insulation systems and finishes.

Gypsum Sheathing can also be used as a sheathing for use in fire-rated exterior wall assemblies. Manufactured with square edges, Gypsum Sheathing requires no tape or compound in the joints of fire-rated wall construction.

### ADVANTAGES

- Low material and application costs.
- The noncombustible gypsum core of the sheathing protects framing elements even when the siding or finish material is combustible.
- Gypsum Sheathing's moisture-resistant core and water-repellent surfaces provide a barrier that resists passage of wind and water.
- Gypsum Sheathing can be scored and snapped to exact size without cutting or sawing.

### LIMITATIONS

- Gypsum Sheathing is not a finished surface nor is it a substrate for the direct application of joint compound, stucco, paint or textures.
- The sheathing should not be used as a nailing base.
- Exterior Insulation Finish Systems (EIFS) incorporating Gypsum Sheathing should

use mechanical fasteners. The performance of these systems and recommendation of the proper method of attachment are the sole responsibility of the EIFS manufacturer.

- Application of Gypsum Sheathing to framing by adhesive only is not recommended.
- Stud spacing must not exceed 24" o.c.
- Gypsum Sheathing is not recommended for application to exterior ceilings, soffits or sills. Exterior Soffit board is recommended in these conditions.
- Gypsum Sheathing should be spaced not less than 1/4" from abutting masonry to minimize wicking.
- Neatly stack Gypsum Sheathing flat, taking care to prevent sagging or damage to the ends, edges and surfaces.
- Gypsum Sheathing may be stored outside for up to one month if stacked off the ground under protective covering.
- Gypsum Sheathing is designed for use as a substrate that is covered by an exterior cladding or other weather barrier and is not intended for long-

term exposure. After it has been installed, it shall not be exposed to the elements for more than 30 days. The Gypsum Sheathing shall be covered with building felt or equivalent within 30 days.

### COMPOSITION & MATERIALS

Gypsum Sheathing is a manufactured panel with a moisture-resistant gypsum core encased in water-repellent paper. Available with a Type X (Fire-Shield) water-resistant core. Fire-Shield core gypsum board also contains various aggregates such as fiberglass to enhance the fire-resistive qualities. Gypsum Sheathing contains no asbestos.

### ACCESSORIES

*Nails* should be galvanized, 11 gauge, 7/16" head and 1-1/3" long for 5/8" sheathing.

*Screws* should be 1-1/4" Type W for wood framing and 1" Type S-12 for metal framing.

*Staples* should be galvanized 16 gauge, 7/16" crown and 1-5/8" long for 5/8" sheathing.

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_ Date \_\_\_\_\_

Submittal Approvals: (Stamps or Signatures)

## TECHNICAL DATA

### PHYSICAL PROPERTIES

Thickness, nominal	5/8" Type X (15.9 mm)
Width, nominal	4' (1219 mm)
Length, standard	8' through 10' (2438 - 3048 mm)
Weight, lbs./sq.ft., nominal	5/8" Type X - 2.3
Edges	Square
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 20 Smoke Developed: 0
Permeability (per ASTM E 96)	20*
*Not classified a vapor barrier	

### APPLICABLE STANDARDS AND REFERENCES

ASTM C 1396
ASTM C 1280
Gypsum Association GA-253
Federal Specification SS-L-30D Type II (Grade R)
Federal Specification SS-L-30D Type II (Grade X)
National Gypsum Company, <i>Gypsum Construction Guide</i>

### FIRE RESISTANCE RATINGS

Fire resistance ratings represent the results of tests on assemblies made up of specific materials in a specific configuration. When selecting construction designs to meet certain fire resistance requirements, caution must be used to insure that each component of the assembly is the one specified in the test. Further, precaution should be taken that assembly procedures are in accordance with those of the tested assembly. (For copies of specific tests, call 1-800-NATIONAL. For fire safety information, see [nationalgypsum.com](http://nationalgypsum.com).)

### UL CORE DESIGNATION

5/8" Gypsum Sheathing: FSW-3

### STRUCTURAL

In tests conducted for the Gypsum Association by an independent laboratory according to ASTM E 72, average ultimate racking load values were as follows:

	Shear Load - lbs. per linear ft. (kg. per .3M)	
	Dry	Wet*
5/8" x 4' wide Type X sheathing (15.9 mm x 1219 mm)	654 (294)	522 (234)
*Treated core only		

Studs spaced 16" o.c., fasteners galvanized 11 ga. and 1-3/4" long for 5/8"; 7" o.c. in the field and 4" o.c. on edges and ends for 5/8" Gypsum Sheathing; 8" o.c. in the field.

*Shear walls:* Where wind or seismic forces require shear walls to resist these lateral forces, most building codes provide allowable shear values for walls having Gypsum Sheathing applied to wood framing. Specific values with construction requirements and limitations are contained in the major model building codes.

## INSTALLATION

### RECOMMENDATIONS

Installation of Gold Bond Gypsum Sheathing should be consistent with methods described in the noted standards and references as indicated below.

Fasteners (nail or screw heads or the crown of staples) 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.

Apply Gypsum 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 over 4" o.c. around perimeter and 8" to intermediate studs (space staples not over 3" and 6" o.c. respectively.) Horizontally applied square edge Gypsum Sheathing shall be covered with building felt or equivalent, or horizontal joints shall be sealed at time of application. Horizontal Gypsum Sheathing joints do not require back blocking.

### DECORATION

Gypsum Sheathing is not a finished surface nor is it a substrate for the direct application of joint compound, stucco, paint or textures for exterior finishes.

**National**   
**Gypsum**®