

Sheathing properties

Properties	1/2" (12.7 mm) Sheathing DENS-GLASS GOLD	5/8" (15.9 mm) Type X DENS-GLASS GOLD FIREGUARD
Thickness, nominal inches (mm)	1/2 (12.7)	5/8 (15.9)
Width, nominal	4" -1/8" (1219 -3 mm)	4" -1/8" (1219 -3 mm)
Length	8', 9', 10' ± 1/4" (2438, 2743, 3048 ± 6 mm)	8', 9', 10' ± 1/4" (2438, 2743, 3048 ± 6 mm)
Weight, kg/m ²	Approx 9.29	Approx 12.21
Surfacing	Glass mat	Glass mat
Racking strength, kg/m dry (ultimate - not design value)	919	1059
Flexural Strength, parallel, N with 4" (1219 mm) weak direction	356 ⁷	444 ⁷
Nail pull resistance, N	356 ⁷	400 ⁷
Humidified deflection, mm	6 ⁸	3 ⁸
Water absorption, % by weight	10.0 ⁸	10.0 ⁸
Surface water absorption, grams	0.84	0.73
Coefficient of thermal expansion, mm/mm/°C	18 x 10 ⁻⁶	18 x 10 ⁻⁶
Permeance, perms Pa • s • m ²	2011 ⁵	689 ⁵
R-Value, m ² • K/W	0.098 ⁶	0.118 ⁶
Flame spread, ASTM E84	0	0
Combustibility, ASTM E136		
- Core	No	No
- Mat	No	No
Non-Combustibility	Yes	Yes

IMO FTPC Part1 - Non-Combustibility Test (IMO Resolution MSC.61 (67) Part 1). Test procedure ISO 1182:1990

NOTE: Specific values for DENS-GLASS GOLD sheathing are defined in ASTM C1177, Specific values for paper faced sheathing are defined by ASTM C79. Comparative values are based on tests conducted in accordance with ASTM C473 and ASTM E72.

1. Gypsum Association - GA-252
3. Maximum requirements for ASTM C79
5. Tested in accordance with ASTM E96 (dry cup method)
7. Minimum requirements for ASTM C 1177

2. Minimum requirements for ASTM C79
4. Maximum requirements for ASTM C473
6. Tested in accordance with ASTM C518 (heat flow meter)
8. Maximum requirements for ASTM C1177



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DENS-GLASS[®] GOLD GYPSUM SHEATHING



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Product description

DENS-GLASS® GOLD

Dens-Glass Gold gypsum sheathing is composed of a water resistant, treated gypsum core, which is noncombustible and dimensionally stable. The core is an integral part of the glass mat facing on both sides. In addition, the gold side is coated with an alkali resistant surface coating. Together, these materials provide stability and protection for the structural framing.

Dens-Glass Gold gypsum sheathing with its unique glass mat facing on the front and back, provides greater resistance to rain, heat, and wind than regular gypsum paper-faced sheathing can provide. This increased weather protection reduces the need to replace panels due to warping, sagging or delamination.

BASIC USE

Dens-Glass Gold gypsum sheathing is used for direct mechanical application to structural framing as a backing for a variety of exterior claddings or as a soffit material. It has been designed as a backerboard for adhesive application of exterior insulation and finish system (EIFS). Dens-Glass Gold can also be used with exterior finish systems without insulation – direct application – below the 4000 heating degree-days line.

Dens-Glass Gold is also recommended for use as sheathing with vinyl, wood, metal, plywood or board-type sidings, wood shingles or shakes, conventional stucco, and stone or brick veneers.

LIMITATIONS

Dens-Glass Gold Gypsum sheathing should not be used as a base for nailing or mechanical fastening. It should be attached mechanically to structural framing.

Panels should not be installed using only staples or adhesives. Maximum stud spacing for 1/2" (12.7 mm) Dens-Glass Gold gypsum sheathing is 16" (406 mm) o.c. and 24' (610 mm) o.c. for 5/8" (15.9 mm) Dens-Glass Gold (Fireguard Type X).



DGG before surface finishing



DGG filled and painted



Curved walls



Substrate for various surfaces



As substrate for Renotech Stonemix 54 trowel applied surface

Installation instruction

METHODS

Edge joints of Dens-Glass Gold gypsum sheathing should be parallel to and occur over framing members, or perpendicular to framing, with end joints staggered. Drive fasteners firmly against and flush with the surface of Dens-Glass Gold gypsum sheathing. Do not countersink fasteners. Fasteners should be located no closer than 3/8" (9,5 mm) from edges and ends of Dens-Glass Gold gypsum sheathing. Fit Dens-Glass Gold gypsum sheathing snugly around all window and door openings.

Dens-Glass Gold gypsum sheathing should be mechanically fastened to the structural framing with nails or screws.

Nails are to be 11 gauge, 7/16" (11 mm) headed galvanized nails. Use 1 1/2" (38 mm) long nails for 1/2" (12.7 mm) boards and 1 3/4" (44 mm) long nails for 5/8" (15.9 mm) boards. Nail spacing shall be 4" (102 mm) o.c. at perimeter and 8" (203 mm) o.c. in field along intermediate framing for vertical application or 8" (203 mm) o.c. throughout for horizontal application. Screws for metal framing shall be No. 6, Type S or S-12, water or bugle head, self-tapping and corrosion resistant. Use 1" (25 mm) long screws for 1/2" (12,7 mm) thick boards and 1 1/4" (32 mm) long screws for 5/8" (15.9 mm) boards. Screw maximum spacing for metal framing is 8" (203 mm) o.c. around perimeter and in the field along intermediate framing.

Dens-Glass Gold gypsum sheathing can be cut by scoring and breaking or by sawing, in either case, working from gold surface. Do not power saw to avoid dusting.

For installation on ship always use glue + screw installation.