



MANUFACTURER

G-P Gypsum Corporation
55 Park Place, 19th Floor
Atlanta, GA 30303
Technical Hotline: 1 (800) 225-6119 (8-6 ET)
www.gpgypsum.com

DESCRIPTION

DensGlass Gold® is a unique, “paperless” sheathing panel made of a treated, water-resistant core, surfaced with glass mat facings and a “gold” colored alkali-resistant coating. Providing superb protection from the elements, DensGlass Gold panels are resistant to decay, delamination and deterioration due to weather and mold.

DensGlass Gold sheathing exhibits 50-100% greater flexural strength than regular gypsum sheathing, with a dimensional stability that assures resistance to warping, rippling, buckling and sagging for a flat and even substrate. DensGlass Gold sheathing is noncombustible. Since DensGlass Gold panels are strong in both directions, they may be installed either parallel or perpendicular to wall framing members.

PRIMARY USES

Because of the superior performance of DensGlass Gold sheathing, it is specified for exterior walls, ceilings and soffits in a wide variety of applications. These include exterior insulation and finish systems (EIFS); cavity walls in brick veneer applications; cladding such as wood siding, vinyl siding, composition siding, siding, wood shingles, shakes, stone, brick, conventional stucco systems and plywood siding panels requiring a single-ply backing; and interior finish systems that require a substrate panel with superior fire and moisture resistance.

For EIFS applications, DensGlass Gold gypsum sheathing is an ideal substrate for adhesive or mechanical application of expanded polystyrene (EPS) or extruded polystyrene insulation, and is recommended in all climate zones.

Most exterior sidings and wall coverings—including wood, vinyl, composition, metal, stone, brick, stucco, wood shingles, shakes and plywood panels—may be applied directly over DensGlass Gold sheathing with excellent results. It is not required to provide a weather resistive barrier over DGG for the protection of the gypsum sheathing itself. Consult with the local building code, design professional, owner

or cladding manufacturer for weather resistive barrier requirements. Manufacturers of air and water barriers, which include flexible membranes, peel and stick and liquid applied, have found DensGlass Gold to be a suitable substrate for their systems.

DensGlass Gold sheathing is an ideal product for exterior ceilings and soffits for both cold and warm climate zones. It resists sagging, even under exceptionally humid conditions. Panels are applied directly to structural framing. Surface and joints may be finished and painted, or the ceiling/soffit may be surfaced with an exterior finish system.

LIMITATIONS

DensGlass Gold sheathing must be installed yellow side facing out, according to specified manufacturer's guidelines, applicable code requirements and applicable details found in the Gypsum Association publication GA-253 or ASTM C1280.

DensGlass Gold sheathing is designed to be a component in properly designed cladding or exterior system. The suitability and compatibility of DensGlass Gold sheathing as part of any system is the responsibility of the system manufacturer. A weather barrier must be applied prior to the expiration of the six (6) months exposure.

Do not use DensGlass Gold sheathing as a base for mechanical fastening. When used in a soffit application, moisture should not be allowed to settle or pond on the top of DensGlass Gold sheathing.

In all applications, coatings and sealants must be properly and sufficiently applied to protect DensGlass Gold sheathing from excessive moisture.

DensGlass Gold sheathing should not be laminated to masonry surfaces; use furring strips or framing spaced at manufacturer's specifications.

DensGlass Gold sheathing should not be applied below grade.

TECHNICAL DATA

DensGlass Gold panels are noncombustible when tested in accordance with ASTM E 136.

DensGlass Gold sheathing exceeds ASTM C 79 standards for humidified deflection by a factor of 10 in tests over the standard for regular gypsum sheathing.

DensGlass Gold Fireguard® sheathing qualifies for a fire-resistant construction when tested

in accordance with ASTM E 119 and can be used in the following UL assemblies: Design Nos. N501, N502, N505, U301, U302, U305, U309, U337, U342, U354, U355, U365, U411, U425, U465, U467, U473, U617, V417, V419, X508, X516.

DensGlass Gold sheathing conforms to ASTM C 1177.

INSTALLATION

1. The surface of framing and furring members to receive DensGlass Gold sheathing should not vary more than 1/4" from the plane of faces of adjacent members.
2. End joints, if required, should be offset; joints should fit snugly and flashing installed around all openings.
3. DensGlass Gold panels of the maximum lengths possible should be used to minimize the number of joints. Edge joints must be located parallel to and with vertical orientations on framing. End joints of adjacent lengths of DensGlass Gold sheathing must be staggered.
4. DensGlass Gold sheathing must be attached to wood framing with nails spaced 4" o.c. at perimeter for racking shear resistance, 8" o.c. at perimeter where racking shear resistance is not required, and 8" o.c. along intermediate framing.
5. For metal framing installations, DensGlass Gold sheathing must be attached to metal framing with screws spaced 8" o.c. at perimeter and 8" o.c. along intermediate framing.
6. Fasteners must be driven so as to bear tight against and flush with surface of sheathing. Fasteners must NOT be countersunk.
7. Fasteners must be located a minimum of 3/8" from edges and ends of sheathing panels.
8. Where DensGlass Gold sheathing is used in applications involving veneer systems, any joint treatment required should be in accordance with sheathing manufacturer's instructions and requirements of local governing authorities.
9. Where DensGlass Gold® sheathing is used in applications of painted ceilings and soffits, joint tape must be applied over joints and embedded in a specified,

SUBMITTAL APPROVALS: (Stamps or Signatures)

- 1/4" — 6.4mm
- 1/2" — 12.7mm
- 3/8" — 15.9mm, type X



setting type joint compound. For smooth finish, the surface should be skim coated with joint compound.

10. If required, building paper or equal should be installed with flashing around openings.

PRODUCT DATA

Thicknesses: ½"—12.7mm
 ⅝"—15.9mm Fireguard®

Width: 4'—1220mm standard, tolerance up to ± ⅛"

Lengths: 8', 9' or 10' standard, tolerance ± ¼"

Other lengths available upon request

Edges: Square

Conforms to ASTM C 1177, Glass Mat Gypsum Substrate for Use as Sheathing.

PHYSICAL PROPERTIES

PROPERTIES	½" DENSGLASS GOLD® SHEATHING	⅝" DENSGLASS GOLD® FIREGUARD®, TYPE X
Thickness, nominal inches	½"	⅝"
Width, nominal	4' ± ⅛"	4' ± ⅛"
Length, standard	8', 9', 10' ± ¼"	8', 9', 10' ± ¼"
Weight, lbs./M sq. ft., nominal	1900	2500
Surfacing	Glass fiber mat	Glass fiber mat
Racking strength, lbs./ft. (dry) (Ultimate—not design value)	≥540	≥654
Flexural strength, parallel, lbs. (4' direction)	80 ³	100 ³
Humidified deflection, inches	⅛" ³	⅔" ³
Permeance (perms) ¹	23	12
R value ²	.56	.67
Linear variation with change in moisture in/in/%RH	6.25 x 10 ⁻⁶	6.25 x 10 ⁻⁶

Values are based on tests conducted in accordance with ASTM C 473 and ASTM E 72.

¹Tested in accordance with ASTM C 355 (dry cup method).

²Tested in accordance with ASTM C 518 (heat flow meter).

³Minimum requirements for ASTM C 1177 standard specification.

When manufactured and tested in accordance with ASTM D 3273, DensGlass Gold scores a 10, the highest level of performance for mold resistance under the ASTM D 3273 test method.

The score of 10, in the ASTM D3273 test, indicates no mold growth in a 4-week controlled laboratory test. The mold resistance of any building product when used in actual job site conditions may not produce the same results as were achieved in the controlled, laboratory setting. No material can be considered mold proof. When properly used with good design, handling and construction practices, DensGuard products provide increased mold resistance compared to standard paper faced wallboard products.

Technical Information

U.S.A. and Canada: 1-800-225-6119

Mon.-Fri., 8 a.m.-6 p.m. (ET)

www.gpgypsum.com

Sales Information and Order Placement

U.S.A.

Midwest: 1-800-876-4746

South: 1-800-327-2344

Northeast: 1-800-947-4497

West: 1-800-824-7503

CANADA

Canada Toll Free: 1-800-387-6823

Quebec Toll Free: 1-800-361-0486

Canada Toll Free Fax: 1-800-387-8975

Visit our Web site at www.gpgypsum.com.