



**DENSGLASS**  
Exterior Guard **GOLD**

TM

## MANUFACTURER

G-P Gypsum Corporation  
55 Park Place, 19th floor  
Atlanta, GA 30303  
Technical (800) 225-6119 M-F 8-6 (ET)

## DESCRIPTION

DensGlass Gold® Exterior Guard 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 highly resistant to delamination, deterioration due to weather and mold and mildew.

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 and has 0 flame spread and 0 smoke developed. Since DensGlass Gold panels are strong in both directions, they may be installed either parallel or perpendicular to framing members.

## PRIMARY USES

Because of the superior performance of DensGlass Gold Exterior Guard, 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, 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 Exterior Guard 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 may be applied directly over DensGlass Gold with excellent results. Building felt is not always necessary; consult local building codes for joint treatment alternatives and building felt requirements.

DensGlass Gold Exterior Guard 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 Exterior Guard 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 C 1280.

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

Do not use DensGlass Gold Exterior Guard 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.

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

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

DensGlass Gold should not be applied below grade.

## TECHNICAL DATA

DensGlass Gold sheathing exceeds ASTM E 283 and E 331 test criteria for both air infiltration and static water penetration with approved joint finish methods as alternates to building felts.

DensGlass Gold panels provide 0 flame spread, 0 smoke developed when tested in accordance with ASTM E 84 and is 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 Exterior Guard conforms to ASTM C 1177.

## INSTALLATION

1. The surface of framing and furring members to receive DensGlass Gold 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 Exterior Guard must be staggered.
4. DensGlass Gold 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 Exterior Guard 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 Exterior Guard 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® Exterior Guard is used in applications of painted ceilings and soffits, joint tape must be applied

SUBMITTAL APPROVALS: (Stamps or Signatures)

- 1/2" — 12.7mm
- 5/8" — 15.9mm, type X

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a Georgia-Pacific company



over joints and embedded in a specified, 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:** 1/2" (12.7mm)  
5/8" (15.9mm) Fireguard®

**Width:** 4' (1220mm) standard, tolerance up to ±1/8"

**Lengths:** 8', 9' or 10' standard, tolerance ±1/4"

Other lengths available upon request

**Edges:** Square

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

### PHYSICAL PROPERTIES

PROPERTIES	1/2" DENSGLOSS GOLD® EXTERIOR GUARD	5/8" DENSGLOSS GOLD® FIREGUARD®, TYPE X
Thickness, nominal inches	1/2"	5/8"
Width, nominal	4' ± 1/8"	4' ± 1/8"
Length, standard	8', 9', 10' ± 1/4"	8', 9', 10' ± 1/4"
Weight, lbs./M sq. ft., nominal	1900	2500
Surfacing	Glass fiber mat	Glass fiber mat
Racking strength, lbs./ft. (dry) (Ultimate—not design value)	617	711
Flexural strength, parallel, lbs. (4* direction)	80 <sup>7</sup>	100 <sup>7</sup>
Humidified deflection, inches	2/8" <sup>4</sup>	1/8" <sup>7</sup>
Surface Water Absorption, grams <sup>1</sup>	.84	.73
Permeance (perms) <sup>2</sup>	23	12
R value <sup>3</sup>	.56	.67
Flame Spread/Smoke Developed	0	0
Linear variation with change in moisture in/in/%RH	6.25 x 10 <sup>-6</sup>	6.25 x 10 <sup>-6</sup>

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

<sup>1</sup>Tested in accordance with ASTM C 79. <sup>2</sup>Tested in accordance with ASTM C 355 (dry cup method).

<sup>3</sup>Tested in accordance with ASTM C 518 (heat flow meter).

<sup>4</sup>Minimum requirements for ASTM C 1177 standard specification.

### Technical Information

U.S.A. and Canada: 1-800-225-6119  
Mon.-Fri., 8 a.m.-6 p.m. (ET)  
[www.gp.com/gypsum](http://www.gp.com/gypsum)

### Sales Information and Order Placement

U.S.A.	CANADA
Midwest: 1-800-876-4746	1-800-387-6823
South: 1-800-327-2344	Quebec: 1-800-361-0486
Northeast: 1-800-947-4497	Canada Fax: 1-800-387-8975
West: 1-800-824-7503	

Or visit our Web site at [www.gp.com/gypsum](http://www.gp.com/gypsum).