

## DensGlass® Sheathing: Building Codes and Air and Water-Resistive Barriers

The model building code requires a water-resistive barrier over exterior sheathing products. The energy code requires continuous air barrier on either the interior or exterior wall in certain climate zones.

### DensGlass Sheathing with Air and Water-Resistive Barriers

DensGlass Sheathing is a superior substrate for a wide variety of air and water-resistive barrier systems and may generally be used with:

- #15 asphalt felt, ASTM D226, type 1 or equivalent
- Synthetic wraps such as Tyvek®, Typar® MetroWrap®, ASTM E1677 or equivalent
- Liquid- or fluid-applied air or vapor barriers such as Tremco ExoAir® 120, Grace Perm-A-Barrier® VP, Henry Air Bloc® 32 or Carlisle Barriseal®
- Water barrier systems such as Sto Guard® as manufactured by Sto Corp., Dryvit's Backstop® NT, Prosoco R-GUARD® or equivalent
- Asphalt based coatings
- Self-adhering membranes
- Weather-resistive barrier and drainage membranes such as DELTA-DRY®
- Exterior applied spray foams.

Some water-resistive barriers require the treatment of joints and sealing of fasteners to be effective air barriers. This may include the use of self reinforcing tapes and spray or trowel applied flexible joint treatment to bridge sheathing joints and openings. Always follow the manufacturer's installation recommendations for use with DensGlass Sheathing, local building code requirements and the design authority's specifications.

It is not required to provide a water-resistive barrier over DensGlass Sheathing for the protection of the gypsum sheathing itself during the 12-month weather exposure limited warranty.

### DensGlass Sheathing Air and Water Infiltration—Testing Background

Georgia-Pacific Gypsum has tested DensGlass Sheathing for air and water infiltration using ASTM standards E283 and E331 respectively. To demonstrate the panel's ability to act as a water repellent sheathing, the joints and nail heads were treated with materials commonly being specified and used on job sites. Materials tested were



silicone based caulks and water based exterior grade caulks with reinforcing mesh tape.

In these tests, DensGlass Sheathing successfully impeded the flow of air and water. Although DensGlass Sheathing is not the final cladding, it has been used as a water repellent sheathing in a properly designed and constructed wall system under claddings such as brick, various sidings, conventional stucco and Exterior Insulation and Finish Systems (EIFS).

Many companies provide full water-resistive barrier and air barrier systems over DensGlass Sheathing that comply with current building code requirements. See the Air Barrier Association of America website for a list of air and moisture barrier manufacturers ([http://www.airbarrier.org/lookup/index\\_e.php](http://www.airbarrier.org/lookup/index_e.php)).

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**DensGlass® Sheathing Limited Warranty Information**

Consult with local building code, design professional, owner or cladding manufacturer for water-resistive barrier requirements and compatibility with the wall cladding. All penetrations should be protected to prevent air and water infiltration. Follow building code, door/window manufacturer's, or design authority's recommendations for flashing around openings, abutments to dissimilar materials and wall terminations.

With nearly a 25-year history and billions of feet installed, DensGlass® Sheathing is the proven performer in commercial exterior sheathing applications and remains the ideal substrate for today's commonly used air and water-resistive barriers often specified in exterior wall assemblies. DensGlass Sheathing is a unique fiberglass mat sheathing panel engineered with a moisture-resistant treated core surfaced with a bond-enhancing coating in Georgia-Pacific Gypsum's familiar GOLD color. DensGlass Sheathing was created to

withstand normal weather and moisture exposure for up to 12 months. DensGlass Sheathing can be used in Exterior Insulation and Finish Systems (EIFS). When tested, as manufactured in accordance with ASTM D3273, DensGlass Sheathing has scored a 10, the highest level of performance for mold resistance under the ASTM D3273 test method.

DensGlass Sheathing inspires confidence in architects and contractors with its history of proven performance. Georgia-Pacific Gypsum backs the track record of DensGlass Sheathing with a limited warranty:\*

- A limited warranty against delamination and deterioration for up to 12 months of exposure to normal weather conditions.
- A 5-year limited warranty against manufacturing defects
- A 12-year limited warranty against manufacturing defects when used as a substrate in architecturally specified EIFS.

\*See [www.gpgypsum.com](http://www.gpgypsum.com) for complete warranty details.

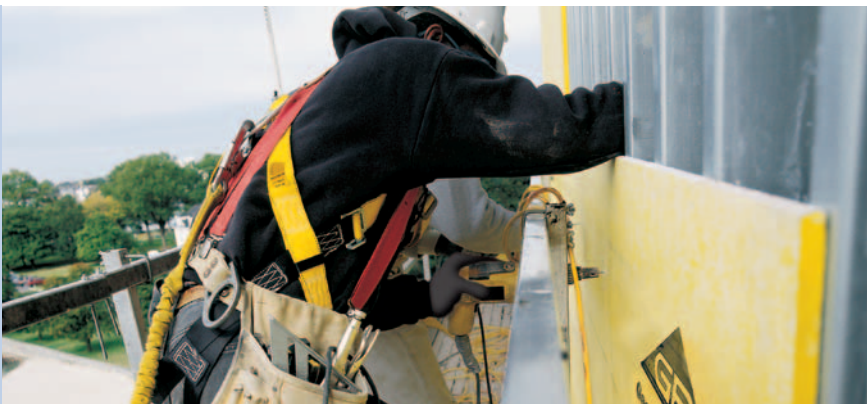
U.S.A. – Georgia-Pacific Gypsum LLC  
 Canada – Georgia-Pacific Canada LP

**Sales Information & Order Placement**

U.S.A. Midwest: **1-800-876-4746**  
 West: **1-800-824-7503**  
 South: **1-800-327-2344**  
 Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**  
 Quebec Toll Free: **1-800-361-0486**

**Technical Information**  
 Georgia-Pacific Gypsum Technical Hotline  
 U.S.A. and Canada: **1-800-225-6119**  
[www.gpgypsum.com](http://www.gpgypsum.com)



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**WARRANTIES, REMEDIES AND TERMS OF SALE** For current warranty information for this product, please go to [www.gpgypsum.com](http://www.gpgypsum.com) and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at [www.gpgypsum.com](http://www.gpgypsum.com).

**UPDATES AND CURRENT INFORMATION** The information in this document may change without notice. Visit our website at [www.gpgypsum.com](http://www.gpgypsum.com) for updates and current information.

**CAUTION** For product fire, safety and use information, go to [www.gp.com/safetyinfo](http://www.gp.com/safetyinfo) or call 1-800-225-6119.

**HANDLING AND USE—CAUTION** This product contains fiberglass facings which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid

breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, long pants and eye protection. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas.

**FIRE SAFETY CAUTION** Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.

