

PRODUCT Bulletin

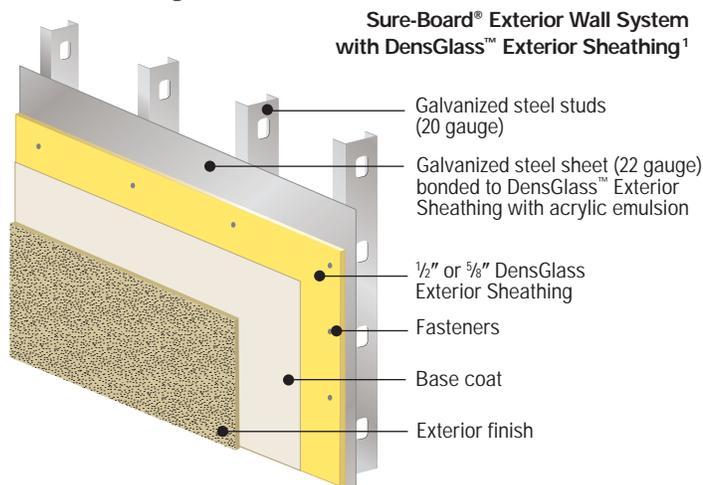
Important Information on Georgia-Pacific Gypsum

DensGlass™ Exterior Sheathing Helps Wellbilt International's Sure-Board® Exterior Cladding System Pass Strict Miami-Dade County High Velocity Hurricane Tests

The ability to withstand the destructive winds and the impact of various objects during a hurricane in a coastal area is key to the survival of any exterior cladding system. DensGlass™ Exterior Sheathing from Georgia-Pacific Gypsum helps Wellbilt International's Sure-Board® exterior cladding system pass the strict Miami-Dade County and Florida Building Code requirements for High Velocity Hurricane Zones (HVHZ). The system was tested independently to determine the performance against specific criteria for impact resistance, air and water infiltration resistance and wind load resistance.

Miami-Dade Notice of Acceptance (NOA) for exterior cladding system

Wellbilt International received the NOA from Miami-Dade's Building Code Compliance Office (BCCO) confirming that their independent testing was accepted for the Sure-Board exterior wall system, which utilizes either 1/2" or 5/8" DensGlass Exterior Sheathing as part of the system. The wall system received a rating for Large and Small Missile Impact and met structural load and cyclic pressure testing. DensGlass Exterior Sheathing has fiberglass mats on front and back, rather than paper facings, and its versatility allows it to be used as a substrate behind Exterior Insulation and Finishing Systems (EIFS), stucco, brick and other cladding material.



¹Illustration not intended for specification purposes. Consult Miami-Dade County NOA No. 08-1126.08 at www.miamidade.gov/buildingcode for specific detail.



Georgia-Pacific DensGlass™ Exterior Sheathing

The tests conducted included Florida Building Code Testing Application Standards:

- TAS 201-Large and Small Missile Test Standards
- TAS 202-Uniform Structural Load Standards
- TAS 203-Uniform Cyclic Pressure Test Standards

Independently, DensGlass Exterior Sheathing was recently tested in accordance with ASTM E 330 by Hurricane Test Laboratory and surpassed existing wind load values. The test evaluates the structural performance of exterior building materials under uniform static air pressure difference, using a test chamber.²

Negative Uniform Lateral Load Values for 5/8" DensGlass Exterior Sheathing

5/8" DensGlass Exterior Sheathing, Horizontal Application					Saffir Simpson Hurricane Scale	
Studs, In. O.C.	Screws, In. O.C.	Ultimate, PSF	GP DGES, SF 3 PSF	MPH ²	Wind, MPH	Color Code/Category
16	8	127	42.3	129	74-95	1
16	6	142	47.3	136	96-110	2
16	4	192	64.0	158	111-130	3
12	8	157	52.3	143	131-155	4
12	6	204	68.0	163	156+	5
12	4	270	90.0	188		
8	8	208	69.3	165		
8	6	354	118.0	215		
8	4	410	136.7	231		

² For a copy of the report #G488-1001-07, contact Georgia-Pacific Gypsum Technical Hotline at 800-225-6119.

Testing indicates that the product can now withstand winds in excess of 155 mph—a Category 5 Hurricane—when installed horizontally with the proper framing support, screws and spacing. These improved wind load values are needed for today's harsh environmental requirements for coastal regions and throughout the U.S. where storms and other conditions can be equally devastating.

In fact, coastal communities from Delaware to Texas now utilize the high standards of Miami-Dade County and the Florida Building Code requirements for High Velocity Hurricane Zones, even though their own communities have not written the standards into their local codes.

The fiberglass mats that make DensGlass Exterior Sheathing moisture and mold resistant penetrate into the panel

during the manufacturing process to create an integrated unit that offers superb strength and outstanding resistance to delamination, deterioration, warping and job site damage. Additionally, the mats provide an excellent bonding surface for EIFS. The flexural strength of DensGlass™ Exterior Sheathing is approximately the same in both directions. This means the product can be installed vertically or horizontally, without sacrificing wall strength between studs and also protects and helps stabilize structural framing.

DensGlass Exterior Sheathing is extremely resistant to rippling, buckling and sagging, even under humid conditions, which makes it particularly suitable for soffits. DensGlass Exterior Sheathing exceeded ASTM C 79 and ASTM C 1396 standards for humidified deflection by a factor of five times over the standard for paper faced gypsum sheathing.

Additional Benefits of DensGlass™ Exterior Sheathing:

- Noncombustible as described and tested in accordance with ASTM E 136
- 5/8" DensGlass Exterior Sheathing meets ASTM E 119/ CAN ULC S-101 for a variety of UL/ULC listings and other designs in the GA-600 Fire Resistance Design Manual
- A superior substrate for a wide variety of air, vapor and water-resistive barrier systems
- Is lightweight and easy to handle; can be cut and fastened with standard drywall tools and fasteners

- 12 month weather exposure limited warranty³
- 5 year limited warranty against manufacturing defects³
- 10 year substrate limited warranty in architecturally specified EIFS³

³ For warranty details, please visit www.gpgypsum.com.

The Effect Of Wind On A Building

During high wind events, building envelopes suffer from the effects of shifting internal and external pressures. Positive pressure will peel exterior claddings and sheathings off the top of the structure and negative pressure, swirling behind the building will do the same. Building materials that connect the roof decking to the building envelope and that have superior wind load values when properly installed will minimize this type of damage during strong storms and hurricanes.

For a copy of the report #G488-1001-07, contact Georgia-Pacific Gypsum Technical Hotline at 800-225-6119.



SALES INFORMATION AND 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



CAUTION: For product fire, safety and use information, go to gp.com/safetyinfo.

TRADEMARKS
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UPDATES AND CURRENT INFORMATION
 The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

LIMITATION OF REMEDIES AND DAMAGES
 Unless otherwise stated in our written warranty for these products, our sole liability for any product claim shall be limited to reimbursement of the cost of repair or replacement of the affected product, up to a maximum amount of two times the original purchase price for the affected product. We shall not be responsible under any circumstances for lost profits, damage to a structure or its contents, or indirect, incidental, special or consequential damages. Claims shall be deemed waived if they are not submitted to us in writing within ten (10) days after discovery of a product defect/circumstance giving rise to a claim.

CAUTION: For product fire, safety and use information, go to gp.com/safetyinfo.

DISCLAIMER: Our fiberglass mat products may contain recycled material with small traces of cellulose fiber in the core, which will not affect the overall product performance or characteristics.

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. For additional product fire, safety and use information go to www.gp.com/safetyinfo or call 1-800-225-6119.

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.