

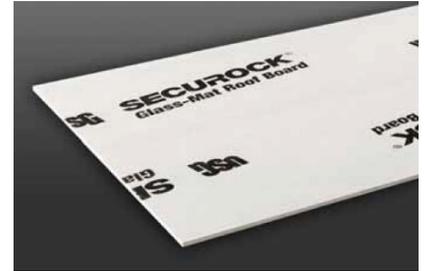


# USG SECUROCK® Glass-Mat Roof Board

## PRODUCT DESCRIPTION

USG SECUROCK Glass-Mat Roof Board is a high-performance roof board used in mechanically attached low-slope roofing systems. This material features a specialty treated core and high-performance glass-mat facers for protection against fire, mold, and moisture.

Revision Date: February 2021



## TYPICAL PROPERTIES AND CHARACTERISTICS

Properties	1/4" (7.4 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Thickness, nominal	1/4" (7.4 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Width, Standard	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)
Length, Standard	8' (2440 mm)	8' (2440 mm)	8' (2440 mm)
Weight, nominal, lbs./sq. ft.	1.2	1.7	2.2
Flexural Strength, parallel, lbf. min. per ASTM C 473	40	80	100
Compressive Strength, psi nominal	700-1000	700-1000	700-1000
Flute Spanability per ASTM E 661	2-5/8"	5"	8"
Permeance, perms per ASTM E 96	18	18	16
R Value per ASTM C 518	0.36	0.53	0.54
Coefficient of thermal expansion, inches/ inch • °F, per ASTM E 831	$8.5 \times 10^{-6}$	$8.5 \times 10^{-6}$	$8.5 \times 10^{-6}$
Linear Variation with Change in Moisture, inches/inch • %RH, per ASTM E 831	$6.3 \times 10^{-6}$	$6.3 \times 10^{-6}$	$6.3 \times 10^{-6}$
Water Absorption, % max, per ASTM C 473	10	10	10
Mold Resistance per ASTM D 3273*	10	10	10
Bending Radius	4'	6'	9'

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

**\*ASTM D3273 Mold Resistance Testing** - In independent lab tests conducted on SECUROCK Gypsum-Fiber roof board and SECUROCK Glass-Mat roof board at the time of manufacture per ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, both panels scored a 10. The ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

## BENEFITS AND SUPPLEMENTAL STATEMENTS

- Ideal for use as cover board in mechanically attached systems
- Moisture- and mold-resistant core and facer
- Provides protection from excessive foot traffic
- Fire-resistant – ideal for use as a fire barrier and thermal barrier
- Unmatched mat-to-core tensile bond strength makes the facer less likely to delaminate when cutting.
- High-quality mat makes for easier handling and cutting

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## PACKAGING

Factory applied packaging is only intended for protection during transit.

1/4" 4'x8' Panels	42 pieces	1613 lbs
1/2" 4'x8' Panels	30 pieces	1632 lbs
5/8" 4'x8' Panels	30 pieces	2112 lbs

## STORAGE

When stored outside or at the job site, the roof board must be stored at least 4" above ground level and completely covered with a weatherproof covering such as a tarpaulin. **Warning - Do Not Leave Exposed:** Product must be kept dry at all times. Install only as much roof board as can be covered the same day by the roofing system. The plastic or poly packaging applied at the plant to protect the board during transit should be removed upon receipt to prevent condensation or trapping of moisture, which may cause application problems.

## CODE APPROVALS/COMPLIANCE

- UL Classified as to Surface Burning Characteristics and Non-Combustibility in accordance with ASTM E84 & E136 (CAN/ULC-S102 & S114).
- UL Class A unlimited slope in accordance with UL790 (CAN/ULC-S107) (ASTM E108).
- 5/8" thickness – Meets requirements of Type X per ASTM C1177 and may be used in ULP series designs as a thermal barrier.
- Meets FM Class 1 (FM 4450 and FM 4470).

## INSTALLATION INSTRUCTIONS

1. Install approved fasteners with plates into the USG SECUROCK Glass-Mat Roof Board, flush with the surface. Fasteners should be installed in strict compliance with Carlisle's specifications. Proper fastener spacing is essential to achieving optimal wind uplift performance.
2. Locate edge joints on, and parallel to, deck ribs. Stagger end joints of adjacent lengths of USG SECUROCK Glass-Mat Roof Board. Butt board edges and ends loosely in typical installations. Long, uninterrupted runs (greater than 200 feet) of USG SECUROCK Glass-Mat Roof Board may require slight gapping due to thermal expansion.
3. See properties table for maximum flute span when panels are applied directly over metal decking.
4. For vertical parapet applications, only 1/2" or 5/8" panels should be used. Maximum framing spacing is 24" OC.

*Review Mule-Hide specifications and details for complete installation information.*

## PRECAUTIONS

- Consult Mule-Hide for specific instructions regarding the application of its products to USG SECUROCK Glass-Mat Roof Board.
- For re-roof or re-cover applications, the existing roofing system must be dry throughout prior to application of USG SECUROCK Glass-Mat Roof Board.

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## LEED INFORMATION

Manufacturing Location	Pre-Consumer Recycled Content	Post-Consumer Recycled Content
Aliquippa, PA	0%	0%
Baltimore, MD	0%	0%
Bridgeport, AL	0%	0%
East Chicago, IL	0%	0%
Galena Park, TX	0%	0%
Jacksonville, FL	0%	0%
Norfolk, VA	0%	0%
Plaster City, CA	0%	0%
Rainier, OR	0%	0%
Shoals, IN	0%	0%
Sigurd, UT	0%	0%
Southard, OK	0%	0%
Sperry, IA	0%	0%
Sweetwater, TX	0%	0%
Washingtonville, PA	0%	0%

## PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

## ADDITIONAL INFORMATION

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at [www.mulehide.com](http://www.mulehide.com) for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

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