



# USG SECUROCK® Gypsum-Fiber Roof Board

## PRODUCT DESCRIPTION

USG SECUROCK Gypsum-Fiber Roof Board is a high-performance roof board for use in low-slope roofing systems. Its unique, fiber-reinforced, homogenous composition means the panel is strong and water-resistant all the way through to its core. USG SECUROCK Gypsum-Fiber Roof Board provides low absorption and an exceptional bond in adhered systems, and, because of its homogenous composition, achieves high wind uplift ratings with no risk of facer delamination. Made from 97% recycled material, USG SECUROCK Gypsum-Fiber Roof Board combines superior performance with sustainable design for single-ply roofing systems.

Revision Date: February 2021



## TYPICAL PROPERTIES AND CHARACTERISTICS

Properties	1/4" (6.6 mm)	3/8" (19.5 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Thickness, nominal	1/4" (6.4 mm) ± 1/16" (1.6 mm)	3/8" (19.5 mm) ± 1/16" (1.6 mm)	1/2" (12.7 mm) ± 1/32" (0.8 mm)	5/8" (15.9 mm) ± 1/32" (0.8 mm)
Width, Standard	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)
Length, Standard	4' (1220 mm) and 8' (2438 mm)	4' (1220 mm) and 8' (2438 mm)	4' (1220 mm) and 8' (2438 mm)	4' (1220 mm) and 8' (2438 mm)
Weight, nominal, lbs./sq. ft.	1.57	1.96	3.2	3.2
Flexural Strength, parallel, lbf. min. per ASTM C 473	40	70	110	161
Compressive Strength, psi nominal	1800	1800	1800	1800
Flute Spanability per ASTM E 661	2-5/8"	5"	8"	10"
Permeance, perms per ASTM E 96	30	26	26	24
R Value per ASTM C 518	0.2	0.3	0.5	0.6
Coefficient of thermal expansion, inches/ inch • °F, per ASTM E 831	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>
Linear Variation with Change in Moisture, inches/inch • %RH, per ASTM E 831	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>	8.0 x 10 <sup>-6</sup>
Water Absorption, % max, per ASTM C 473	10	10	10	10
Surface Water Absorption, nominal grams, per ASTM C 473	1.6	1.6	1.6	1.6
Mold Resistance per ASTM D 3273*	10	10	10	10
Bending Radius	25'	25'	25'	25'

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

- Exceptional bond and low absorption in adhered systems
- Resistant to moisture and mold
- Exceptional wind uplift performance
- Manufactured from 97% recycled material
- Provides protection from hail and foot traffic when adhered with insulation adhesive

# USG SECUROCK® Gypsum-Fiber Roof Board

## PACKAGING

Factory applied packaging is only intended for protection during transit.

1/4" 4'x4' Panels	100 pieces	2512 lbs
1/4" 4'x8' Panels	50 pieces	2575 lbs
3/8" 4'x4' Panels	80 pieces	2509 lbs
3/8" 4'x8' Panels	40 pieces	2575 lbs
1/2" 4'x4' Panels	60 pieces	2650 lbs
1/2" 4'x8' Panels	30 pieces	2725 lbs
5/8" 4'x4' Panels	48 pieces	2458 lbs
5/8" 4'x8' Panels	24 pieces	2525 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.

## CODE APPROVALS/COMPLIANCE

- Surface Burning Characteristics and Non-Combustibility in accordance with ASTM E84 (CAN/ULC-S102).
- 1/2" and 5/8" thickness – UL Class A in accordance with UL790 (CAN/ULC-S107) (ASTM E108). See the UL Building Materials Directory for more information.
- 5/8" thickness – Meets requirements of Type X per ASTM C1278 and may be used in ULP series designs as a thermal barrier.
- Meets FM Class 1 (FM 4450 and FM 4470).
- Manufactured to conform to ASTM C1278, "Standard Specification for Fiber-Reinforced Gypsum Panel."

## INSTALLATION INSTRUCTIONS

1. All board edges should be loosely abutted and never kicked in tight in typical installations. Please refer to the Typical Properties and Characteristics chart on page 1 to calculate the gap needed for your specific project (coefficient of thermal expansion and linear variation with change in moisture).
2. Install approved fasteners with plates into the USG SECUROCK Gypsum-Fiber Roof Board, flush with the surface. Fasteners should be installed in strict compliance with Mule-Hide's specifications and details.
3. Locate edge joints on, and parallel to, deck ribs. Stagger end joints of adjacent lengths of USG SECUROCK Gypsum-Fiber Roof Board.
4. Roof boards should never be installed when they are frozen.
5. See properties table for maximum flute span when panels are applied directly over metal decking.
6. For vertical parapet applications, only 1/2" or 5/8" panels should be used. Maximum framing spacing is 24" OC.
7. Panel spacing may be needed based on factors like roof deck's size, membrane color, ultimate deck surface temperature and time of year the roof is installed.

*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 Gypsum-Fiber Roof Board.
- For re-roof or re-cover applications, the existing roofing system must be dry throughout prior to application of USG SECUROCK Gypsum-Fiber Roof Board.
- When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evaporate to avoid damage to roofing components.

# USG SECUROCK<sup>®</sup> Gypsum-Fiber Roof Board

## LEED INFORMATION

Manufacturing Location	Pre-Consumer Recycled Content	Post-Consumer Recycled Content
Aliquippa, PA	97%	0%
Baltimore, MD	97%	0%
Bridgeport, AL	97%	0%
East Chicago, IL	97%	0%
Galena Park, TX	97%	0%
Jacksonville, FL	97%	0%
Norfolk, VA	97%	0%
Plaster City, CA	97%	0%
Rainier, OR	97%	0%
Shoals, IN	97%	0%
Sigurd, UT	97%	0%
Southard, OK	97%	0%
Sperry, IA	97%	0%
Sweetwater, TX	97%	0%
Washingtonville, PA	97%	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.

The trademarks SECUROCK<sup>®</sup>, the USG Logo<sup>™</sup> and related marks are trademarks of USG Corporation or its subsidiaries or affiliates.

## DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at [www.mulehide.com](http://www.mulehide.com) or contact Mule-Hide directly at 800-786-1492 for details. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the alleged failure before repairs are made.