



USG SECUROCK® BRAND

ULTRALIGHT GLASS-MAT ROOF BOARD (1 of 2)

Description

USG Securock® Brand UltraLight Glass-Mat Roof Board is a high-performance roof board for use in low-slope commercial roofing systems. It enhances the durability of the entire roofing system when used as a cover board in single-ply mechanically attached systems. Its specially treated core and high-performance glass-mat facer provide protection against fire, mold, and moisture.

Fire Performance: Fire-resistant for use as a thermal barrier. Meets Factory Mutual (FM) Class 1 and Underwriters Laboratories (UL) Class A fire ratings for unlimited slope in fire barrier applications per UL 790.

Moisture and Mold: Glass-mat facer provides protection against moisture and helps boards meet ASTM D3273 for mold resistance.¹

Easy to Cut, Handle, and Install:

Tightly woven mat helps reduce potential skin irritation when cutting. Mat-to-core tensile bond strength helps prevent facer delamination during cutting.

- Suitable for use as a cover board in single-ply mechanically attached systems
- ½" (12.7 mm) and ⅝" (15.9 mm) thicknesses contain a lightweight core that is up to 18% lighter than competitive glass-mat roof boards²
- Can help provide protection to roof system from hail and foot traffic³

Installation

- Please refer to the appropriate GAF Application and Specifications Manual or contact GAF at 1-800-766-3411.
- Plastic or poly packaging applied at the plant to protect board during rail or other transit should be removed upon receipt to prevent condensation or trapping of moisture, which may cause application problems
- USG Securock® UltraLight Glass-Mat Roof Board should be stored flat and off the ground with protection from the weather. If stored outdoors, a breathable waterproof covering should be used.
- Locate edge joints on, and parallel to, deck ribs. Stagger end joints of adjacent lengths of USG Securock® UltraLight Glass-Mat Roof Board.
- Roof boards should never be installed if they exhibit frost or have a board temperature below 32°F (0°C)

- See product data table on the next page for maximum flute span when panels are applied directly over metal decking
- For vertical parapet applications, only ½" (12.7 mm) or ⅝" (15.9 mm) panels should be used. Maximum framing spacing is 24" (610 mm) o.c.

Precautions

Dust may cause irritation to eyes, skin, nose, throat, and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin, and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Do not swallow. If swallowed, call physician. For more information call Product Safety: 1-800-507-8899 or see the SDS at usg.com.

Limitations

- USG Securock® UltraLight Glass-Mat Roof Board is engineered to perform within a properly designed roof system. The use of USG Securock® UltraLight Glass-Mat Roof Board as a roofing component is the responsibility of the design professional.
- Wet or moist weather conditions, dew, application temperatures outside the specified window, improper installation techniques, and moisture drive can have adverse effects on the performance of the roof system and are beyond the control of USG or GAF
- Keep USG Securock® UltraLight Glass-Mat Roof Board panels dry before, during, and after installation. USG Securock® UltraLight Glass-Mat Roof Board should not be installed during rain, heavy fog, and any other conditions that deposit moisture on the surface of the board. Apply only as much USG Securock® UltraLight Glass-Mat Roof Board as can be covered by final roof membrane system in the same day.
- Moisture from inside the building can be as big a risk for the roof system as moisture from outside. The contractor installing the roof and the design professional should protect the roof assembly not only from excessive moisture during the construction of the building (new concrete, paint, plaster materials) but also after the building is dried in.

Manufactured by:



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Limitations Cont.

(Continued) The HVAC system must properly manage moisture generated by the occupants of the building to make sure it is vented to the outside and does not migrate into the roof system.

- 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. The designer of record should use USG's published physical properties below to determine if spacing is needed.

- For reroof or re-cover applications, existing roofing system must be dry throughout prior to application of USG Securock® UltraLight Glass-Mat Roof Board

Standards/Compliance

USG Securock® UltraLight Glass-Mat Roof Board is manufactured to conform to ASTM C1177.

Product Information

See usg.com for the most up-to-date product information.

PHYSICAL PROPERTIES			
	1/4" (6.35 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Width, standard	4' (1,219 mm)	4' (1,219 mm)	4' (1,219 mm)
Length, standard	8' (2,438 mm)	8' (2,438 mm)	8' (2,438 mm)
Pieces per unit for 4' x 8' (1,219 x 2,438 mm) sheet	42	30	30
Weight, nominal lb./unit 4' x 8' (1,219 x 2,438 mm) sheet	1,688	1,632	2,112
Weight, nominal lb./sq. ft.	1.2	1.7	2.2
Flexural strength, parallel, lb. min., per ASTM C473	40	80	100
Compressive strength, psi nominal	700 – 1,000 (4.8MPa – 6.9MPa)	700 – 1,000 (4.8MPa – 6.9MPa)	700 – 1,000 (4.8MPa – 6.9MPa)
Flute spannability per ASTM E661	2 5/8" (66.68 mm)	5" (127 mm)	8" (203.2 mm)
Permeance, perms per ASTM E96	18	18	16
R-Value per ASTM C518	0.36	0.53	0.54
Coefficient of thermal expansion, inches/inch • °F, per ASTM E831	8.5" x 10 ⁻⁶	8.5" x 10 ⁻⁶	8.5" x 10 ⁻⁶
Linear variation with change in moisture, inches/inch • %RH, per ASTM D1037	6.3" x 10 ⁻⁶	6.3" x 10 ⁻⁶	6.3" x 10 ⁻⁶
Water absorption, % max, per ASTM C473	10	10	10
Mold resistance per ASTM D3273 ^{1,4}	10	10	10
Bending radius	4' (1,219 mm)	6' (1,829 mm)	9' (2,743 mm)



¹GAF warranties and guarantees do not provide coverage against mold or other biological growth. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

²18% claim is an average based on published weights of competitive products. Gypsum board weights will vary by manufacturing plant and raw material sources.

³GAF warranties and guarantees do not provide coverage for traffic (except where GAF walkways are applied) or hail (unless additional coverage is purchased on eligible jobs). Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

⁴ASTM D3273 Mold Resistance Testing: In independent lab tests conducted on USG Securock® Brand Gypsum-Fiber Roof Board and USG Securock® Brand UltraLight 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 experience 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.