

# Securock® Roof Board



**One product that does it all.**

- Moisture and mold resistance
- Solid core provides exceptional bond strength
- Excellent wind-uplift performance
- No glass fiber face layer to delaminate
- Manufactured from 95% recycled material

**Description**

SECUROCK® Brand Roof Board is for low slope commercial roofing that uses an advanced fiber-reinforced technology to provide superior performance. It provides superior protection from moisture and mold. Unlike other boards, produced with irritating fiberglass or face layers that can delaminate, SECUROCK roof board enhances the bond strength of the membrane system to the board while providing superior wind uplift performance.

**Advantages**

**Exceptional Strength** Engineered to provide superior wind uplift performance for a wide variety of roof assemblies. Because of its uniform composition and no face layers to delaminate, SECUROCK roof board provides enhanced bond strength of membrane systems.

**Fire Performance** Provides excellent fire performance and demonstrates exceptional surface burning characteristics (ASTM E84 Flame Spread 5, Smoke Developed 0).

**Moisture and Mold** Integral water-resistant core ensures excellent moisture and mold resistance.

In independent lab tests, scored a maximum '10' per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber."

**Versatile** Can be used as a component in single-ply, fluid-applied, built-up, spray foam metal and modified bitumen roofing — one product for all systems.

**Sustainability** Made from 95% recycled materials, and has earned independent certification from Scientific Certification Systems for this achievement. No VOCs are emitted once installed.

**Good Design Practices**

1. SECUROCK roof board is designed to act with a properly designed roof system. The use of SECUROCK roof board as a roofing component is the responsibility of the roof assembly designer. USG does not offer roof system design services.
2. Conditions beyond the control of USG, such as weather conditions, dew, application temperatures and techniques, may cause adverse effects on the performance of the roof system assembly. Always consult roofing system manufacturers for specific instructions for application of their products to SECUROCK roof board.
3. Keep panels dry before, during and after installation. Install only as much SECUROCK roof board as can be covered by a roof membrane system in the same day.
4. Avoid accumulation of water due to leaks or condensation in or on SECUROCK roof board during construction and after construction. Avoid application of SECUROCK roof board during rains, heavy fogs and any other conditions that deposit moisture on the surface.
5. Refer to the 2007 NRCA Roofing Manual: Membrane Roofing Systems or a qualified engineer to ensure proper moisture control, ventilation and suitability for application of fiber-reinforced gypsum roof cover boards.
6. When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evaporate to avoid damage to roofing components.
7. USG allows the bonding of cold mastic modified bitumen and torching directly to the surface. Consult with the system manufacturer for recommendations on this application.
8. USG recommends maximum asphalt application temperature for Type III asphalt of 450 °F when using SECUROCK roof board. Application temperatures above these recommended temperatures may adversely affect roof system performance.

**Warning:** Store all SECUROCK roof board flat. Panels are heavy and can fall over, causing serious injury or death.

**Installation**

- Use fasteners specified in accordance with Factory Mutual Global (FMG) requirements and roof membrane manufacturer's written recommendations.
- In accordance with approved shop drawings, install FMG-approved fasteners with plates through the SECUROCK roof board, flush with the surface. Fasteners should be installed in strict compliance with the roof manufacturer's installation recommendations and FMG Loss Prevention Data Sheet 1-29. Proper fastener spacing is essential to achieve wind-uplift performance.
- Locate edge joints on, and parallel to, deck ribs. Stagger end joints of adjacent lengths of SECUROCK roof board.
- Install SECUROCK roof board with ends and edges butted tightly.
- Butt board edges and ends loosely in typical installations. However, long uninterrupted runs (greater than 200 feet) of SECUROCK roof board may require slight gapping due to higher surface temperature gain



**Technical Data**

**Surface Burning Characteristics** SECUROCK roof board has a Flame Spread of 5 and Smoke Developed rating of 0, in accordance with ASTM E84 or CAN/ULC-S102. UL-Classified and tested in accordance with FM 4450 and FM 4470.

**Standards Compliance** SECUROCK roof board is manufactured to conform to ASTM C1278, "Standard Specification for Fiber-Reinforced Gypsum Panel."

**Physical Properties**

	SECUROCK roof board			
	1/4"	3/8"	1/2"	5/8"
Thickness, nominal	6.6 mm	9.5 mm	12.7 mm	15.9 mm
Width, standard	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)	4' (1220 mm)
Length, standard	4' (1220 mm) and 8' (2440 mm)	4' (1220 mm) and 8' (2440 mm)	4' (1220 mm) and 8' (2440 mm)	4' (1220 mm) and 8' (2440 mm)
Pieces per pallet for 4 x 8 sheets	50	40	30	24
Weight, nominal lbs./pallet, 4' x 8' sheet	2,375	2,595	2,445	2,432
Weight, nominal lbs./sq. ft.	1.43	1.97	2.47	3.06
Weight per 4 x 8 sheet, nominal lbs./sheet	46	63	79	98
Flexural strength, parallel, lbs. min., per ASTM C473	40	70	110	161
Flute spanability per ASTM E661	2-5/8"	5"	8"	8"
Permeance, perms, per ASTM E96	30	26	26	24
R Value per ASTM C518	0.2	0.3	0.5	0.6
Coefficient of thermal expansion, inches/inch • °F, per ASTM E831	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>
Linear variation with change in moisture, inches/inch • %RH, per ASTM D1037	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>	8 x 10 <sup>-6</sup>
Water absorption, % max, per ASTM C473	10	10	10	10
Compressive strength, psi nominal	1250	1000	500	500
Surface water absorption, nominal grams, per ASTM C473	1.6	1.6	1.6	1.6
Mold resistance per ASTM D3273	10	10	10	10

**Submittal Approvals:**

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

**Product Information**

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

**Trademarks**

The following trademarks used herein are owned by United States Gypsum Company: SECUROCK.

**Note**

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

**Notice**

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than their intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

**Safety First!**

Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

