

# SECUROCK® High-Performance Roof Boards

USG has a full range of high-performance roof board products, giving consumers a choice in the roof board industry.

SECUROCK Gypsum-Fiber roof board outperforms the competition and is made from 95 percent recycled material. SECUROCK Glass-Mat roof board meets the stringent performance requirements and specifications of competitive glass-mat roof boards while being easier to handle. Plus, both boards come with the customer service, flexibility and responsiveness that only USG can deliver. All of this adds up to a roof board portfolio that goes above and beyond the competition.

## SECUROCK Glass-Mat Roof Board

Performance	1/4" SECUROCK Glass-Mat	1/4" DENSDECK <sup>1</sup>	1/2" SECUROCK Glass-Mat	1/2" DENSDECK <sup>1</sup>	5/8" SECUROCK Glass-Mat	5/8" DENSDECK <sup>1</sup>
Compressive strength, psi	700-1000	900	700-1000	900	700-1000	900
Flute span	2-5/8"	2-5/8"	5"	5"	8"	8"
Bending radius	4'	5'	6'	8'	9'	12'
Flexural strength, Method B, parallel, lbf. min. per ASTM C473	40	40	80	80	100	100
Permeance, perms	18	50	18	35	16	32
Water absorption, % max, per ASTM C473	10	10	10	10	10	10
Mold resistance per ASTM D3273*	10	N/A <sup>3</sup>	10	N/A <sup>3</sup>	10	N/A <sup>3</sup>
ASTM Standard	C1177	C1177	C1177	C1177	C1177	C1177

## SECUROCK Gypsum-Fiber Roof Board

Performance	1/4" SECUROCK Gypsum-Fiber	1/4" DENSDECK Prime <sup>1</sup>	3/8" SECUROCK Gypsum-Fiber	1/2" DENSDECK Prime <sup>1</sup>	1/2" SECUROCK Gypsum-Fiber	5/8" DENSDECK Prime <sup>1</sup>	5/8" SECUROCK Gypsum-Fiber
Compressive strength, psi	1800	900	1800	900	1800	900	1800
Flute span	2-5/8"	2-5/8"	5"	5"	8"	8"	10"
Flexural Strength, Method B, parallel, lbf. min. per ASTM C473	40	40	70	80	110	100	155
Nail pull resistance, min. lbs./ft.	80	40 <sup>2</sup>	110	80 <sup>2</sup>	120	90 <sup>2</sup>	145
Permeance, perms	30	50	26	35	26	32	24
Water absorption, % max, per ASTM C473	10	10	10	10	10	10	10
Mold resistance per ASTM D3273*	10	N/A <sup>3</sup>	10	N/A <sup>3</sup>	10	N/A <sup>3</sup>	10
ASTM Standard	C1278	C1177	C1278	C1177	C1278	C1177	C1278

\*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.

## A More Economical Product

When compared to DENSDECK products, SECUROCK Gypsum-Fiber roof board has better compressive strength and flute spanability. Testing confirms that you can substitute a 3/8" SECUROCK Gypsum-Fiber panel for other 1/2" products and still achieve superior performance.

<b>Compressive Strength</b>	<b>psi</b>				
	<b>0</b>	<b>450</b>	<b>900</b>	<b>1350</b>	<b>1800</b>
3/8" SECUROCK Gypsum-Fiber Roof Board					1800
1/2" DENSDECK Prime <sup>1</sup>			900		
<b>Flute Spanability</b>	<b>Inches</b>				
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
3/8" SECUROCK Gypsum-Fiber Roof Board					5
1/2" DENSDECK Prime <sup>1</sup>					5

**Easier Handling and Installation**

SECUROCK Glass-Mat roof board has a high quality glass-mat, making it less itchy and easier to work with. The high mat-to-core tensile bond strength also makes mat less likely to delaminate when cutting.

SECUROCK Gypsum-Fiber roof board, with its homogenous composition of gypsum and cellulose fibers, does not require a glass-mat facer for strength. This makes the panel easy to handle with no itchiness.

SECUROCK Gypsum-Fiber roof board is ideal for fully adhered applications. It achieves high bond strength without the use of an additional primer. It also has very low surface absorption, giving additional installed cost savings on labor and materials.

**Best Choice for All Applications**

SECUROCK high-performance roof boards go above and beyond to meet your needs for all applications.

Applications	SECUROCK Gypsum-Fiber Roof Board	SECUROCK Glass-Mat Roof Board
Single ply mechanically attached	Acceptable	Recommended
Single ply fully adhered	Recommended	Not Recommended
Modified Bitumen torch applied	Recommended	Not Recommended
Modified Bitumen cold applied	Recommended	Not Recommended
Modified Bitumen hot mopped	Recommended	Not Recommended
Built up roof	Recommended	Not Recommended
Built up roof hybrid	Recommended	Not Recommended
Self adhered	Recommended	Not Recommended
Spray foam	Recommended	Not Recommended
Thermal barrier	Acceptable	Recommended
Fire barrier	Acceptable	Recommended
Vapor barrier substrate	Acceptable	Recommended

**Environmentally Friendly**



SECUROCK Gypsum-Fiber roof board is the ideal choice for projects where high recycled content is a priority. It is manufactured from a combination of synthetic gypsum and cellulose fibers. Synthetic gypsum is a byproduct from electrical plants. It is indistinguishable from natural mined gypsum rock in performance and quality, and its use in SECUROCK Gypsum-Fiber roof board eliminates landfill waste. Likewise, the cellulose fibers are waste that are sourced locally from a packaging manufacturer. The final result is a high-performance roof board with over 95 percent recycled content, earning it Green Cross certification from Scientific Certification Systems.

<sup>1</sup> Georgia-Pacific DensDeck data taken from GP Lit. Item # 622602

<sup>2</sup> Minimum per ASTM C1177, Georgia Pacific DensDeck data not provided in Lit. Item #622602

<sup>3</sup> Georgia-Pacific DensDeck data not provided in Lit. Item #622602

**Product Information**

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

**Note**

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

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**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.



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