

USG SECUROCK® BRAND HIGH-PERFORMANCE ROOF BOARDS

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

USG Securock® Brand Gypsum-Fiber Roof Board outperforms the competition and is made from 97 percent recycled material. USG Securock® Brand UltraLight 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.

**USG SECUROCK®
BRAND ULTRALIGHT
GLASS-MAT
ROOF BOARD**

| Performance | 1/4" USG Securock® Brand UltraLight Glass-Mat Roof Board | 1/4" GP DensDeck®¹ | 1/2" USG Securock® Brand UltraLight Glass-Mat Roof Board | 1/2" GP DensDeck®¹ | 5/8" USG Securock® Brand UltraLight Glass-Mat Roof Board | 5/8" GP DensDeck®¹ |
|--|--|------------------------|--|------------------------|--|------------------------|
| Compressive strength, psi | 700-1,000 (4.8MPa – 6.9MPa) | 900 (6.2 MPa) | 700-1,000 (4.8MPa – 6.9MPa) | 900 (6.2 MPa) | 700-1,000 (4.8MPa – 6.9MPa) | 900 (6.2 MPa) |
| 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 |
| 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 | 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 | 6.3 x 10 ⁻⁶ | 6.3 x 10 ⁻⁶ | 6.3 x 10 ⁻⁶ |
| Mold resistance per ASTM D3273* | 10 | 10 | 10 | 10 | 10 | 10 |
| ASTM Standard | C1177 | C1177 | C1177 | C1177 | C1177 | C1177 |

**USG SECUROCK®
BRAND GYPSUM-FIBER
ROOF BOARD**

| Performance | 1/4" USG Securock® Brand Gypsum-Fiber | 1/4" GP DensDeck® Prime¹ | 3/8" USG Securock® Brand Gypsum-Fiber | 1/2" GP DensDeck® Prime¹ | 1/2" USG Securock® Brand Gypsum-Fiber | 5/8" GP DensDeck® Prime¹ | 5/8" USG Securock® Brand Gypsum-Fiber |
|--|---------------------------------------|--------------------------|---------------------------------------|--------------------------|---------------------------------------|--------------------------|---------------------------------------|
| Compressive strength, psi | 1,800 (12.4MPa) | 900 (6.2 MPa) | 1,800 (12.4MPa) | 900 (6.2 MPa) | 1,800 (12.4MPa) | 900 (6.2 MPa) | 1,800 (12.4MPa) |
| 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. lb./ft. | 80 | 40² | 110 | 80² | 120 | 90² | 145 |
| Water absorption, % max, per ASTM C473 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Coefficient of thermal expansion, inches/inch • °F, per ASTM E831 | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ |
| Linear variation with change in moisture, inches/inch • % RH, per ASTM D1037 | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ | 8.0 x 10 ⁻⁶ |
| Mold resistance per ASTM D3273* | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| ASTM Standard | C1278 | C1177 | C1278 | C1177 | C1278 | C1177 | C1278 |

*ASTM 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 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 GP DensDeck® products, USG Securock Gypsum-Fiber Roof Board has better compressive strength and flute spanability. Testing confirms that you can substitute a 3/8" USG Securock Gypsum-Fiber Roof Board for other 1/2" products and still achieve superior performance.

| Compressive Strength (psi) | 0 | 450 | 900 | 1,350 | 1,800 |
|--|----------|------------|------------|--------------|--------------|
| 3/8" USG Securock® Brand Gypsum-Fiber Roof Board | | | | | 1,800 |
| 1/2" GP DensDeck® Prime ¹ | | | | 900 | |

| Wind Uplift (psf) | 60 | 75 | 90 | 105 | 120 |
|---|-----------|-----------|-----------|------------|------------|
| 3/8" USG Securock® Brand Gypsum-Fiber Roof Board ⁴ | | | | | 120 |
| 1/2" GP DensDeck® Prime ^{3,4} | | | | 90 | |

| Flute Spanability (inches) | 1 | 2 | 3 | 4 | 5 |
|--|----------|----------|----------|----------|----------|
| 3/8" USG Securock® Brand Gypsum-Fiber Roof Board | | | | | 5 |
| 1/2" GP DensDeck® Prime ¹ | | | | | 5 |

EASIER HANDLING AND INSTALLATION

USG Securock UltraLight 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.

USG Securock Gypsum-Fiber Roof Board, with its uniform 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.

USG 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.

USG Securock® Brand Cement Roof Board is the lightest cement board in the industry. Ideal for use as a cover board in system applications such as liquid-applied membranes or as a parapet, fire or thermal barrier roof board. It's easy to cut and fasten and is noncombustible.

BEST CHOICE FOR ALL APPLICATIONS

USG Securock® Brand high-performance roof boards go above and beyond to meet your needs for all applications.

| Applications | USG Securock® Brand Gypsum-Fiber Roof Board | USG Securock® Brand UltraLight Glass-Mat Roof Board | USG Securock® Brand Cement Roof Board | USG Securock® Brand UltraLight Coated Glass-Mat Roof Board |
|----------------------------------|--|--|--|---|
| Single ply mechanically attached | ✓ | ✓ | ✓ | ✓ |
| Single ply fully adhered | ✓ | — | ✓ | ✓ |
| Low rise foam adhesive | ✓ | — | ✓ | ✓ |
| Modified Bitumen torch applied | ✓ | — | ✓ | — |
| Modified Bitumen cold applied | ✓ | — | ✓ | ✓ |
| Modified Bitumen hot mopped | ✓ | — | ✓ | — |
| Built-up roof | ✓ | — | ✓ | — |
| Built-up roof hybrid | ✓ | — | ✓ | — |
| Self adhered | ✓ | — | ✓ | ✓ |
| Spray foam | ✓ | — | ✓ | ✓ |
| Thermal barrier | ✓ | ✓ | ✓ | ✓ |
| Fire barrier | ✓ | ✓ | ✓ | ✓ |
| Vapor barrier substrate | ✓ | ✓ | ✓ | ✓ |

**ENVIRONMENTALLY
FRIENDLY**

USG 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 flue gas desulfurization (FGD) gypsum and cellulose fibers. Flue gas desulfurization (FGD) gypsum is a byproduct from coal-based electrical plants. It is indistinguishable from natural mined gypsum rock in performance and quality, and its use in USG Securock Gypsum-Fiber Roof Board eliminates landfill waste. Likewise, the cellulose fibers are recycled and sourced locally from a packaging manufacturer. The final result is a high-performance roof board with over 97 percent recycled content.

Footnotes

1. Georgia-Pacific DensDeck® data taken from GP Lit. Item # 622602
2. Minimum per ASTM C1177, Georgia-Pacific DensDeck® data not provided in Lit. Item #622602
3. Roofnav.com - RN# 223182
4. 16 fasteners/ 4x8 board for both USG and GP.

PRODUCT INFORMATION

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

TRADEMARKS

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NOTE

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

NOTICE

We shall not be liable for incidental and 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 the 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 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 SDS and related literature on products before specification and/or installation.

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