

CGC SECUROCK® BRAND HIGH-PERFORMANCE ROOF BOARDS

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

CGC Securock® Brand Gypsum-Fiber Roof Board outperforms the competition and is made from 97 percent recycled material. CGC 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 CGC can deliver. All of this adds up to a roof board portfolio that goes above and beyond the competition.

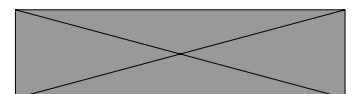
CGC SECUROCK® BRAND
ULTRALIGHT GLASS-MAT
ROOF BOARD

Performance	6.4 mm (1/4 in.) CGC Securock® Brand UltraLight Glass-Mat Roof Board	6.4 mm (1/4 in.) GP DensDeck® ¹	12.7 mm (1/2 in.) CGC Securock® Brand UltraLight Glass-Mat Roof Board	12.7 mm (1/2 in.) GP DensDeck® ¹	15.9 mm (5/8 in.) CGC Securock® Brand UltraLight Glass-Mat Roof Board	15.9 mm (5/8 in.) GP DensDeck® ¹
Compressive strength, psi	700–1,000 (4.8 MPa – 6.9 MPa)	900 (6.2 MPa)	700–1,000 (4.8 MPa – 6.9 MPa)	900 (6.2 MPa)	700–1,000 (4.8 MPa – 6.9 MPa)	900 (6.2 MPa)
Flute span	67 mm (2-5/8 in.)	67 mm (2-5/8 in.)	127 mm (5 in.)	127 mm (5 in.)	200 mm (8 in.)	200 mm (8 in.)
Bending radius	1,220 mm (4 ft.)	1,525 mm (5 ft.)	1,830 mm (6 ft.)	2,440 mm (8 ft.)	2,740 mm (9 ft.)	3,660 mm (12 ft.)
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
Mould resistance per ASTM D3273*	10	10	10	10	10	10
ASTM Standard	C1177	C1177	C1177	C1177	C1177	C1177

CGC SECUROCK® BRAND
GYPSUM-FIBER
ROOF BOARD

Performance	6.4 mm (1/4 in.) CGC Securock® Brand Gypsum-Fiber	6.4 mm (1/4 in.) GP DensDeck® Prime ¹	9.5 mm (3/8 in.) CGC Securock® Brand Gypsum-Fiber	12.7 mm (1/2 in.) GP DensDeck® Prime ¹	12.7 mm (1/2 in.) CGC Securock® Brand Gypsum-Fiber	15.9 mm (5/8 in.) GP DensDeck® Prime ¹	15.9 mm (5/8 in.) CGC 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	67 mm (2-5/8 in.)	67 mm (2-5/8 in.)	127 mm (5 in.)	127 mm (5 in.)	200 mm (8 in.)	200 mm (8 in.)	254 mm (10 in.)
Flexural strength, Method B, parallel, lbf. min. per ASTM C473	40	40	70	80	110	100	155
Nail-pull resistance, min. lb./ft.	80	40 ²	110	80 ²	120	90 ²	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
Mould resistance per ASTM D3273*	10	10	10	10	10	10	10
ASTM Standard	C1278	C1177	C1278	C1177	C1278	C1177	C1278

*ASTM D3273 Mould Resistance Testing: In independent lab tests conducted on CGC Securock® Brand Gypsum-Fiber Roof Board and CGC 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 mould. To manage the growth of mould, 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, CGC Securock® Gypsum-Fiber Roof Board has better compressive strength and flute spanability. Testing confirms that you can substitute a 9.5 mm (3/8 in.) CGC Securock® Gypsum-Fiber Roof Board for other 12.7 mm (1/2 in.) products and still achieve superior performance.

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

Wind Uplift (psf)	60	75	90	105	120
9.5 mm (3/8 in.) CGC Securock® Brand Gypsum-Fiber Roof Board ⁴					120
12.7 mm (1/2 in.) GP DensDeck® Prime ^{3,4}			90		

Flute Spanability (inches)	1	2	3	4	5
9.5 mm (3/8 in.) CGC Securock® Brand Gypsum-Fiber Roof Board					5
12.7 mm (1/2 in.) GP DensDeck® Prime ¹					5

EASIER HANDLING AND
INSTALLATION

CGC 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.

CGC 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.

CGC 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.

CGC 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

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

Applications	CGC Securock® Brand Gypsum-Fiber Roof Board	CGC Securock® Brand UltraLight Glass-Mat Roof Board	CGC Securock® Brand Cement Roof Board	CGC 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	✓	✓	✓	✓
Vapour barrier substrate	✓	✓	✓	✓

CGC 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 CGC 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/ 1,220 x 2,440 mm (4 ft. x 8 ft.) board for both CGC and GP.

PRODUCT INFORMATION

See cgcinc.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. The information in this document is subject to change without notice. CGC Inc. assumes no responsibility for any errors that may inadvertently appear in this document. Consult your CGC Inc. sales office or representative for information.

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SAFETY FIRST!

Follow good safety/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 Safety Data Sheets and related literature on products before specification and/or installation.

