



CGC SECUROCK® BRAND COATED GLASS-MAT ROOF BOARD

NEW COATED MAT FOR ADHERED APPLICATIONS

High-performance glass-mat roof board for use in low-slope commercial roofing systems

- Exceptional bond and low absorption in cold-applied adhesive applications
- Lightweight core; up to 18% lighter than competitive products¹
- Moisture- and mould-resistant core and facer
- Provides protection to roof system from hail and foot traffic
- Fire-resistant for use as fire barrier and thermal barrier
- Unmatched mat-to-core tensile bond strength makes facer less likely to delaminate when cutting
- High-quality tight mat makes for easier handling and cutting

1. Lightweight applies to 12.7 mm (1/2 in.) and 15.9 mm (5/8 in.) thickness only.

DESCRIPTION

CGC Securock® Brand Coated 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 cover board in low-slope commercial roof systems. Its specially treated core and high-performance glass-mat facer provide protection against fire, mould and moisture. CGC Securock® Coated Glass-Mat Roof Board combines superior strength and an ultralight core applicable for all cold adhesive roof applications.

ADVANTAGES

Lightweight: Newly engineered to provide exceptional strength while 18% lighter than competitive panels.

Fire Performance: 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 Mould: Fiberglass face and back with treated core provide moisture and mould resistance.

INSTALLATION

- Refer to roof membrane system manufacturer's written instructions, local code requirements and Factory Mutual Global (FMG) and/or Underwriters Laboratories (UL) requirements for proper installation techniques.
- Use fasteners specified in accordance with above requirements. Install approved fasteners with plates into the CGC Securock® Coated Glass-Mat Roof Board, flush with the surface. Fasteners should be installed in strict compliance with the roof system manufacturer's installation recommendations and FMG *Loss Prevention Data Sheet 1-29*. **A qualified architect or engineer should review and approve calculations, framing and fastener spacing for all projects.**
- Locate edge joints on, and parallel to, deck ribs. Stagger end joints of adjacent lengths of CGC Securock® Coated Glass-Mat Roof Board.
- All board edges should be loosely abutted and never kicked in tight in typical installations.
- Roof boards should never be installed if they exhibit frost.
- For cover board applications, 6.4 mm (1/4 in.) CGC Securock UltraLight Coated Glass-Mat roof boards should not be installed below 0°C (32°F)
- See product data table below for maximum flute span when panels are applied directly over metal decking.
- For vertical parapet applications, only 12.7 mm (1/2 in.) or 15.9 mm (5/8 in.) panels should be used. Maximum framing spacing is 610 mm (24 in.) o.c.

LIMITATIONS

- CGC Securock® Coated Glass-Mat Roof Board is engineered to perform within a properly designed roof system. The use of CGC Securock® Coated Glass-Mat Roof Board as a roofing component is the responsibility of the design professional.
- For use in cold-applied adhesive application only. Not recommended for hot application (i.e., torch or hot asphalt application).
- Consult roofing membrane manufacturers for specific instructions on the application of their products to CGC Securock® Coated Glass-Mat Roof Board.
- Weather conditions, dew, application temperature, installation techniques and moisture drive can have adverse effects on the performance of the roof system and are beyond the control of CGC.
- Keep CGC Securock® Coated Glass-Mat Roof Board panels dry before, during and after installation. CGC Securock® Coated 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 CGC Securock® Coated Glass-Mat Roof Board that can be covered by final roof membrane system in the same day. Avoid exposure to moisture from leaks or condensation.
- Wind uplift (vertical pull) of the roof system as installed can be affected by many factors beyond CGC's control, including moisture migrating into the roof assembly from inside or outside the building, proper fastener spacing, the quality of installation especially for fasteners and whether the framing has been properly designed and installed to meet strength and deflection criteria specified in the contract documents. For all these reasons, CGC cannot guarantee the wind-uplift resistance (vertical pull) of any roof assembly or system containing CGC roof boards.
- 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. 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 CGC'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 CGC Securock® Coated Glass-Mat Roof Board.
- 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.
- CGC Securock® Coated 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.
- When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evaporate to avoid damage to roofing components.
- CGC allows the bonding of cold mastic-modified bitumen and low rise urethane foam to the surface. Consult with the system manufacturer for recommendations on this application.
- For systems not listed, please contact your local CGC Securock® Brand roofing sales representative.

FIRE PERFORMANCE

- UL Classified (Type SGMRX) as to Surface Burning Characteristics in accordance with ASTM E84 (CAN/ULC-S102).
 - Flame Spread 0 and Smoke Developed 0
 - Noncombustible Core per ASTM E136-12 (CAN/ULC-S114)
- 6.4 mm (1/4 in.), 12.7 mm (1/2 in.) and 15.9 mm (5/8 in.) thickness—Class A unlimited slope in accordance with UL790 (CAN/ULC-S107).
- 15.9 mm (5/8 in.) thickness—Meets requirements of Type X per ASTM C1177 and may be used in P series designs as a thermal barrier.

SYSTEM PERFORMANCE

- FM Approved
- Complies with requirements of FM 4450 and FM 4470
- Meets FM Class 1

STANDARDS COMPLIANCE

CGC Securock® Coated Glass-Mat Roof Board is manufactured to conform to ASTM C1177.

PHYSICAL PROPERTIES

	6.4 mm (1/4 in.)	12.7 mm (1/2 in.)	15.9 mm (5/8 in.)
Width, standard	1220 mm (4 ft.)	1220 mm (4 ft.)	1220 mm (4 ft.)
Length, standard	1220 mm (4 ft.) and 2440 mm (8 ft.)	1220 mm (4 ft.) and 2440 mm (8 ft.)	1220 mm (4 ft.) and 2440 mm (8 ft.)
Pieces per unit for 4' x 8' sheet	42	30	30
Weight, nominal kg (lb.)/unit 4' x 8' sheet	732 (1613)	740 (1632)	958 (2112)
Weight, nominal kg/m² (lb./sq. ft.)	5.9 (1.2)	8.3 (1.7)	10.7 (2.2)
Flexural strength, parallel, lb. min. per ASTM C473	40	80	100
Compressive strength MPa nominal (psi)	4.8-6.9 (700-1000)	4.8-6.9 (700-1000)	4.8-6.9 (700-1000)
Flute spannability per ASTM E661	67 mm (2-5/8 in.)	127 mm (5 in.)	203 mm (8 in.)
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
Mould resistance per ASTM D3273*	10	10	10
Bending radius	1220 mm (4 ft.)	1830 mm (6 ft.)	2745 mm (9 ft.)

***ASTM D3273 Mould Resistance Testing:** In independent lab tests conducted on CGC Securock® Brand Gypsum-Fiber Roof Board and 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 mould 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.

PRODUCT INFORMATION

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

CAUTION

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: 800 507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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NOTE

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NOTICE

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SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read SDS and literature before specification and installation.

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