



CGC DUROCK® BRAND CEMENT BOARD NEXT GEN UNDERLAYMENT

DATA SHEET



6.4 mm (1/4") CGC DUROCK® BRAND CEMENT BOARD NEXT GEN UNDERLAYMENT FOR FLOOR AND COUNTERTOP APPLICATIONS

- 6.4 mm (1/4") thickness helps eliminate trim when abutting carpet or wood flooring
- Easy to cut and fasten
- Water-durable and mould-resistant
- Will not rot, warp, delaminate or disintegrate
- Noncombustible

DESCRIPTION

6.4 mm (1/4") CGC Durock Cement Board Next Gen Underlayment is an ideal substrate for floor and countertop ceramic tile installations. The 6.4 mm (1/4") thickness helps eliminate transition trim when abutting carpet or wood flooring and minimize level variations with other finish materials. It can be applied directly over old substrate on countertops to save time. It features formed smooth edges and square-cut ends.

PRODUCT DATA

SIZES AND PACKAGING

CGC Durock Cement Board Next Gen Underlayment is 6.4 mm (1/4") thick and 915 mm (3') x 1525 mm (5'). 60 pieces per unit.

STANDARDS

CGC Durock Cement Board Next Gen Underlayment exceeds ANSI standards for cementitious backer units (CBU). See ANSI A118.9 for test methods and specifications for CBU and ANSI A108.11 for interior installation of CBU. Exceeds ASTM C1325 standards for non-asbestos fiber-mat reinforced cementitious backer units.

AVAILABILITY

CGC Durock Cement Board Next Gen Underlayment is distributed throughout Canada. Contact a CGC Inc. sales office or sales person for additional information.

COMPOSITION AND MATERIALS

CGC Durock Cement Board Next Gen Underlayment is formed in a continuous process of aggregated portland cement slurry with polymer-coated, glass-fiber mesh completely encompassing edges, back and front surfaces. The edges are formed smooth. The ends are square-cut.

ENVIRONMENTAL CONDITIONS

In cold weather and during CGC Durock Cement Board Next Gen Underlayment panel and tile installation, temperatures within the building shall be maintained within the range of 5 to 38 °C (40 to 100 °F). Adequate ventilation shall be provided to carry off excess moisture.

DELIVERY AND STORAGE

All materials should be delivered and stored in their original unopened package and stored in an enclosed materials shelter providing protection from damage and exposure to the elements. Even though the stability and durability of CGC Durock Cement Board Next Gen Underlayment is unaffected by the elements, moisture and temperature variations may have an effect on the bonding effectiveness of basecoats and adhesives. Store all CGC Durock Cement Board Next Gen Underlayment panels flat.

INTERIOR APPLICATIONS

Wood framing shall approximate the moisture content it will reach in service by allowing the enclosed building to stand as long as possible prior to the application of the cement board. Do not install board when the board is wet.

PANEL MICRO-CRACKING

CGC Durock Cement Board Next Gen Underlayment is formulated to develop fine micro-cracking (also called multiple-cracking) in the panel. The micro-cracking process helps to evenly relieve the stored strain energy in the product due to handling and installation, external loads, and/or panel restrained movement. The presence of micro-cracks in the panel should not be considered a product defect.

APPLICATIONS

FLOOR

- CGC Durock Cement Board Next Gen Underlayment should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a dust collection device. Installer should wear NIOSH/MSHA approved dust mask.
- Laminate CGC Durock Cement Board Next Gen Underlayment to subfloor using Type 1 organic adhesive, latex-fortified mortar or dry-set mortar mixed with acrylic latex additive that is suitable for bonding cement backerboard to plywood subfloor, with 6 mm (1/4") square-notched trowel for mortar, 4 mm (5/32") V-notched trowel for adhesive. Place cement board with joints staggered from subfloor joints. Fit ends and edges closely, but not forced together, leaving a 3 mm (1/8") gap. Fasten to subfloor with 32 mm (1-1/4") CGC Durock™ Brand Tile Backer Screws for wood framing or 38 mm (1-1/2") hot-dipped galvanized roofing nails spaced 203 mm (8") o.c. in both directions, with perimeter fasteners at least 10 mm (3/8") and less than 16 mm (5/8") from ends and edges. Drive nails and screws so that bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners.





COUNTERTOP

Fasten minimum 19.1 mm (3/4") plywood or OSB across cabinet supports. Position ends and edges over supports. Staple film over the plywood base. Fasten CGC Durock® Brand Cement Board Next Gen Underlayment to plywood with 32 mm (1-1/4") CGC Durock™ Brand Wood Screws or 38 mm (1-1/2") galvanized roofing nails spaced 203 mm (8") o.c. in both directions and around edges. Fit ends and edges closely, but not forced together.

JOINT TREATMENT

Prefill joints with tile-setting mortar or adhesive and then immediately embed CGC Durock™ Brand Tile Backer Tape and level joints.

LIMITATIONS

1. 6.4 mm (1/4") CGC Durock Cement Board Next Gen Underlayment products are only for interior construction applied to minimum 15.9 mm (5/8") exterior-grade plywood or OSB.
2. Maximum framing spacing: 610 mm (24") o.c. Maximum fastener spacing: 203 mm (8") o.c.
3. Maximum design deflection: L/360 of the span. Some finish materials may require a more rigid sub-assembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements.
4. 6.4 mm (1/4") CGC Durock Cement Board Next Gen Underlayment should not be used for wall or ceiling applications. For wall or ceiling applications, use 12.7 mm (1/2") or 15.9 mm (5/8") CGC Durock Cement Board Next Gen Underlayment.

TECHNICAL DATA

PROPERTY	TEST REFERENCE	6.4 mm (1/4") CGC DUROCK CEMENT BOARD NEXT GEN UNDERLAYMENT
Flexural Strength – MPa (psi)	ASTM C947	6.9 (1000)
Intentional Strength – MPa (psi)	ASTM D2394	>8.6 (1250)
Water Absorption – % by weight 24 hours	ASTM C473	15
Weight – kg/m ² (psf)	ASTM C473	<9.3 (1.9)
Freeze/thaw resistance – procedure B, number of cycles with no deterioration	ASTM C666	100
Noncombustibility	CAN/ULC S114	Pass
Surface Burning Characteristics – flame/smoke	CAN/ULC S102	0/0
Standard Method for Evaluating Ceramic Floor Tile Installation Systems	ASTM C627	Light Commercial

PRODUCT INFORMATION

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

WARNING

Portland cement is strongly alkaline. Direct contact can be corrosive and cause severe damage or chemical burns to the eyes and wet or moist skin. Avoid contact with eyes and skin. Wear eye protection, alkali-resistant protective gloves, long-sleeved shirts and pants to prevent direct contact. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek medical advice. Inhalation of dust may be corrosive or cause chemical burns or irritation to nose, throat and respiratory tract. Avoid breathing dust. Use

in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA approved dust respirator. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. Longterm breathing of respirable crystalline silica dust can cause permanent lung damage and/or cancer. Product safety information: 1-800 387-2690 or cgcinc.com. **KEEP OUT OF REACH OF CHILDREN.**

TRADEMARKS

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NOTE

Products described here may not be available in all geographic markets. Consult your CGC Inc. 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/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

