

# CGC DUROCK® BRAND CEMENT BOARD WITH EDGE GUARD™

## Backerboard for tile and exterior finish systems

- Enhanced proprietary edge performance prevents spinout and crumbling
- Easy to cut and fasten
- Water durable and mould resistant
- Warranted for interior and exterior applications
- Exceptional tile bond
- Noncombustible
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

## DESCRIPTION

CGC Durock® Brand Cement Board with EdgeGuard™ offers architects, builders and tile contractors a strong, water-durable tile base for tub and shower areas. Also an ideal underlayment for tile on floors and countertops in new construction and remodeling. Board is readily applied over wood or steel framing spaced 406 mm (16 in.) o.c. with corrosion-resistant wood screws, steel screws or hot-dipped galvanized roofing nails. After joints are treated, wall or floor tile is applied using latex-fortified mortar or Type I organic adhesive.

CGC Durock® Brand Cement Board with EdgeGuard™ is preferred by many applicators as a base for directly applied finishes, tile, stone and thin brick used in building exteriors.

The 12.7 mm (1/2 in.) and 15.9 mm (5/8 in.) panels are Underwriters Laboratories Inc. (cUL) Classified for fire resistance and can be used in any UL Design in which Type DCB panels are listed.

## PRODUCT DATA SIZES AND PACKAGING

Size (thickness x width x length)	Units (pcs) <sup>1</sup>
6.4 mm x 915 mm x 1524 mm (1/4 in. x 3 ft. x 5 ft.)	60
12.7 mm x 915 mm x 1524 mm (1/2 in. x 3 ft. x 5 ft.)	50
12.7 mm x 1219 mm x 2438 mm (1/2 in. x 4 ft. x 8 ft.)	40
15.9 mm x 1219 mm x 2438 mm (5/8 in. x 4 ft. x 8 ft.)	32

1. Shipped in packaging units as shown.

## STANDARDS

CGC Durock® Brand Cement Board with EdgeGuard™ exceeds ASTM C1325, Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units and 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 industry standards as an exterior substrate for exterior finishes.

## AVAILABILITY

CGC Durock® Brand Cement Board with EdgeGuard™ is distributed throughout Canada. Contact a CGC Inc. sales office or sales representative for additional information.

## COMPOSITION AND MATERIALS

CGC Durock® Brand Cement Board with EdgeGuard™ 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 with a patented poly-propylene fabric-wrapped edge. The ends are square cut.



#### DELIVERY AND STORAGE OF MATERIALS

All materials should be delivered and stored in their original unopened package and stored in an enclosed shelter providing protection from damage and exposure to the elements. Even though the stability and durability of CGC Durock® Brand Cement Board with EdgeGuard™ 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® Brand Cement Board with EdgeGuard™ panels flat.

#### ENVIRONMENTAL CONDITIONS

In cold weather and during CGC Durock® Brand Cement Board with EdgeGuard™ 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.

#### INTERIOR APPLICATIONS

The building shall be enclosed and the HVAC system operating so that wood framing shall reach the moisture content it will reach in service. Do not install board when the board is wet.

#### EXTERIOR APPLICATIONS

In exterior applications, CGC Durock® Brand Cement Board with EdgeGuard™ should not be left uncovered for a period of time exceeding 90 days. Discolouration or staining may occur due to exposure to the elements which will not affect performance of the panel. Finishes, leveling/skim coats and basecoats should not be applied to CGC Durock® Brand Cement Board with EdgeGuard™ panel that is wet or frozen or that contains frost. After application, and for at least 24 hours, finishes, leveling/skim coats and basecoats should be effectively protected from rain and excessive moisture. In cold weather and during finish applications, CGC Durock® Brand Cement Board with EdgeGuard™ panel, skim or basecoat, mortar, finish material and air temperature must be at least 5°C (40°F) and must remain at this temperature or higher for at least 24 hours after application. Hot and dry weather may affect working time of leveling/skim or basecoat and finish materials. Under rapid drying conditions, dampening or light fogging of board, leveling/skim or basecoat surface may be required to improve workability. This product is not intended for below grade installation.

#### PANEL MICROCRACKING

CGC Durock® Brand Cement Board with EdgeGuard™ is formulated to develop fine microcracking (also called multiple cracking) in the panel. The microcracking 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 microcracks in the panel should not be considered a product defect.

#### INSTALLATION

- A.** Install cement board with ends and edges closely abutted, but not forced together. Stagger end joints in successive courses.
- B.** For flooring applications over a wood-based substrate, laminate CGC Durock® Brand Cement Board with EdgeGuard™ to subfloor using Type 1 organic adhesive or latex-modified thin-set mortar suitable for bonding cement board. Fasten to subfloor with 32 mm (1-1/4 in.) CGC Durock® Brand Tile Backer Screws for wood framing (or equivalent) or 38 mm (1-1/2 in.) hot-dipped galvanized roofing nails spaced 200 mm (8 in.) o.c. in both directions with perimeter fasteners at least 10 mm (3/8 in.) and less than 16 mm (5/8 in.) 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. Prefill joints with tile-setting mortar or adhesive and then immediately embed CGC Durock® Brand Tile Backer Tape and level joints.
- C.** For wall application, fasten CGC Durock® Brand Cement Board with EdgeGuard™ panels to framing with specified fasteners. Drive fasteners into field of panels first, working toward ends and edges. Hold panels in firm contact with framing while driving fasteners. Space fasteners maximum 200 mm (8 in.) o.c. for walls, 150 mm (6 in.) o.c. for ceilings, with perimeter fasteners at least 10 mm (3/8 in.) and less than 16 mm (5/8 in.) from ends and edges. Drive nails and screws so bottoms of heads are flush with panel surface to ensure firm panel contact with framing. Do not overdrive fasteners. Approved fasteners include: CGC Durock™ Brand Tile Backer Screws for steel framing (or equivalent), 32 mm (1-1/4 in.) and 41 mm (1-5/8 in.) for 14- to 20-gauge steel framing; CGC Durock® Brand Tile Backer Screws for wood framing (or equivalent), 32 mm (1-1/4 in.), 41 mm (1-5/8 in.) and 57 mm (2-1/4 in.) for wood framing. Nails (38 mm [1-1/2 in.] hot-dipped galvanized roofing nails). Prefill joints with tile-setting mortar or adhesive and then immediately embed CGC Durock® Brand Tile Backer Tape and level joints.

## INSTALLATION CONT.

- D. Cement board 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.
- E. If waterproofing is desired, use CGC Durock® Brand Liquid Waterproofing Membrane. See CGC Durock® Brand Liquid Waterproofing Membrane submittal sheet (CB817) for more product information.

Refer to current CGC literature, *Durock® Cement Board Systems* (SA932) and *Moisture-Resistant Assemblies* (SA934) for complete installation information, including good design practices. Also, *CGC Durock® Brand Cement Board with EdgeGuard™ Installation Guide* (CB237).

## LIMITATIONS

1. Designed for positive or negative uniform loads up to 60 psf. For complete information on the use of CGC Durock® Brand panels in exterior systems, consult uniform load table on Page 4 for applicable positive or negative uniform loads on wall systems.
2. Wall applications: Maximum stud spacing: 406 mm (16 in.) o.c. (610 mm [24 in.] o.c. for cavity shaft wall assembly). Framing shall be designed (based on stud properties alone) not to exceed L/360 deflection for tile and thin brick, L/240 for direct-applied exterior finish systems. Maximum fastener spacing: 200 mm (8 in.) o.c. for wood and steel framing; 150 mm (6 in.) o.c. for ceiling applications.
3. Floor applications: Maximum joist spacing 610 mm (24 in.) o.c. The subfloor system should be designed with a minimum deflection limit of L/360 for the span. Some finish materials may require a more rigid subassembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements. The subfloor should be APA Span-Rated Plywood or OSB with an Exposure 1 classification or better with tongue and groove or back blocked at the unsupported edges.
4. In exterior applications, CGC Durock® Brand Cement Board with EdgeGuard™ should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel. This product is not intended for below grade installation.
5. Brittle coatings, such as epoxy coatings, are not recommended for use with CGC Durock® Brand Cement Board with EdgeGuard™. CGC Durock® Brand Cement Board with EdgeGuard™ is intended for use with tile, thin brick and exterior stucco coatings only.
6. Maximum dead load for ceiling system is 7.5 psf.
7. Steel framing must be 20-gauge or heavier.
8. Do not use drywall screws or drywall nails. Do not use drywall joint tape.
9. Do not use 6.4 mm (1/4 in.) CGC Durock® Brand Cement Board with EdgeGuard™ for wall or ceiling applications. CGC Durock® Brand Cement Board with EdgeGuard™ 6.4 mm (1/4 in.) panels are for use in interior applications only.
10. Do not use CGC Durock® Brand Cement Board with EdgeGuard™ with vinyl flooring.
11. CGC Durock® Brand Cement Board with EdgeGuard™ is not designed for use as a structural panel.
12. Maximum installed weight of the finish system should not exceed 15 psf.
13. CGC Durock® Brand Cement Board with EdgeGuard™ panels should not be used in areas where they are exposed to temperatures that exceed 93°C (200°F).
14. In locations close to salt water or other challenging environments, design professionals should consider the use of stainless steel fasteners.
15. Do not use lightweight setting-type joint compounds or ready-mix joint compounds directly over CGC Durock® Brand Cement Board with EdgeGuard™.

## TECHNICAL DATA

Property	Unit of Measure	Test Method	15.9 mm (5/8 in.) CGC Durock® Brand Cement Board with EdgeGuard™	12.7 mm (1/2 in.) CGC Durock® Brand Cement Board with EdgeGuard™	6.4 mm (1/4 in.) CGC Durock® Brand Cement Board with EdgeGuard™ Underlayment
<b>Flexural Strength</b>	MPa (psi)	ASTM C947	> 3.3 (480)	> 5.2 (750)	> 6.9 (1000)
<b>Indentation Strength</b>	MPa (psi)	ASTM D2394	> 8.6 (1250)	> 8.6 (1250)	> 8.6 (1250)
<b>Shear Bond Strength</b>	psi	ANSI A118.4	> 50	> 50	> 50
<b>Nail-Pull Resistance</b>	lb. (10 mm [0.375 in.] head diameter, wet or dry)	ASTM C473	> 90	> 90	—
<b>Weight</b>	kg/m <sup>2</sup> (psf)	ASTM C473	14.65 (3.0)	11.23 (2.3)	< 9.28 (1.9)
<b>Freeze/Thaw Resistance</b>	procedure B, number of cycles with no deterioration	ASTM C666	100	100	100
<b>Mould Resistance</b>	—	ASTM G21  ASTM D3273	Rating 0, No Growth  10/10	Rating 0, No Growth  10/10	Rating 0, No Growth  10/10
<b>Noncombustibility</b>	Pass/Fail	CAN/ULC-S114	Pass	Pass	Pass
<b>Surface-Burning Characteristics</b>	flame/smoke	CAN/ULC-S102	0/5	0/5	0/5
<b>Thermal</b>	"R"/k value	ASTM C518	0.49/1.27	0.39/1.27	—
<b>Standard Method for Evaluating Ceramic Floor Tile Installation Systems</b>	Passes cycles 1-6	ASTM C627	Light Commercial	Light Commercial	Light Commercial
<b>Minimum Bending Radius</b>	ft. (requires special framing details available upon request)	—	6	6	—

### PRODUCT INFORMATION

See [cgcinc.com](http://cgcinc.com) for the most up-to-date product information.

### WARNING

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, provincial, and federal regulations. For more information call customer service at 800 387-2690 or see the Safety Data Sheet (SDS) at [cgcinc.com](http://cgcinc.com)  
**KEEP OUT OF REACH OF CHILDREN.**

### TRADEMARKS

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### SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.



## UNIFORM LOAD— 12.7 mm (1/2 in.) CGC DUROCK® BRAND CEMENT BOARD WITH EDGEGUARD™

Stud Spacing	Fastener Spacing	Design Wind Load (1/240)	Design Wind Load (1/360)
305 mm (12 in.) o.c.	200 mm (8 in.) o.c.	35 psf	35 psf
	150 mm (6 in.) o.c.	44 psf	44 psf
406 mm (16 in.) o.c.	200 mm (8 in.) o.c.	27 psf	21 psf
	150 mm (6 in.) o.c.	31 psf	21 psf
610 mm (24 in.) o.c. (for shaft wall assemblies only)	200 mm (8 in.) o.c.	12 psf	8 psf
	150 mm (6 in.) o.c.	12 psf	8 psf

## COMPLIANCE

- Complies with ASTM C1325, Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units
- Meets ASTM D3273, resists the growth of mould with a score of 10/10
- cUL Classification as to fire resistance.
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (CA 01350)

## SUBMITTAL APPROVALS

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

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Manufactured by  
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CB399EG-CAN-ENG/rev. 7-23  
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Printed in Canada

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