

# CGC DUROCK™ BRAND GLASS-MAT TILE BACKERBOARD



## DESCRIPTION

- Lightweight and easy to score, snap and fasten
- Moisture- and mould-resistant substrate
- Scores the highest achievable rating (10 out of 10) for mould resistance according to ASTM D3273
- Proprietary coating provides exceptional tile bond performance

## PRODUCT DATA

Size (thickness x width x length) <sup>1</sup>	Units (pcs) <sup>1</sup>
12.7 mm x 1220 mm x 2440 mm (1/2 in. x 4 ft. x 8 ft.)	50
12.7 mm x 1220 mm x 1524 mm (1/2 in. x 4 ft. x 5 ft.)	50
15.9 mm x 1220 mm x 2440 mm (5/8 in. x 4 ft. x 8 ft.)	40

1. Shipped in units as shown.

## STANDARDS

CGC Durock™ Glass-Mat Tile Backerboard exceeds ASTM C1178, *Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel*.

## AVAILABILITY

CGC Durock™ Glass-Mat Tile Backerboard is distributed throughout Canada. Contact a CGC Inc. sales office or representative for additional information.

## COMPOSITION AND MATERIALS

CGC Durock™ Glass-Mat Tile Backerboard consists of a treated water-resistant gypsum core that is covered with a coated fiberglass mat facer and back and has a proprietary coating surface. The edges of the panels are square and even.

## DELIVERY AND STORAGE

All materials should be delivered and stored in their original packaging and stored in an enclosed shelter providing protection from damage and exposure to the elements. Store all panels flat.

## ENVIRONMENTAL CONDITIONS

In cold weather and during CGC Durock™ Glass-Mat Tile Backerboard and tile installation, temperatures within the building shall be maintained within the range of 4-38°C (40-100°F). Adequate ventilation shall be provided to carry off excess moisture. Low temperatures and high relative humidity will increase the curing time needed for adhesives and mortars.

## 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 backerboard. Panels are not intended for constant exposure to water. Protect from immersion in water and the eroding effects of cascading water.

## INSTALLATION

- A. Install backerboard 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™ Glass-Mat Tile Backerboard 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 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™ Glass-Mat Tile Backerboard 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 a 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. Do not overdrive fasteners. Approved fasteners include: CGC Durock™ 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™ 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; and nails (38 mm [1-1/2 in.] hot-dipped galvanized roofing nails). Prefill joints and then immediately embed CGC Durock™ Tile Backer Tape and level joints. Maintain 6.4 mm (1/4 in.) gap between CGC Durock™ Glass-Mat Tile Backerboard and tub surround. CGC Durock™ Brand Glass-Mat Tile Backerboard panels may be fastened to framing horizontally or vertically with stud spacing at a maximum of 610 mm (24 in.) on center with blocking at horizontal joints or 406 mm (16 in.) on center without blocking.
- D. Panels should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a hepa vacuum dust-collection device. Installer should wear NIOSH/MSHA-approved dust mask.
- E. If system waterproofing is required, treat panels, joints and fastener penetrations with ANSI A118.10 waterproofing membrane. For fluid-applied waterproofing, use CGC Durock™ Brand Liquid Waterproofing and Crack Isolation Membrane. See *CGC Durock™ Brand Liquid Waterproofing and Crack Isolation Membrane Submittal Sheet* (CB817) for product information.
- F. For dry untiled areas - for those areas where the CGC Durock™ Brand Glass-Mat Tile Backerboard will not be tiled, but as board extending beyond the tiled area and abutting another surface, treat joints as follows. Seal board with Type 1 ceramic tile adhesive. (Mix four parts adhesive with one part water.) Embed CGC Sheetrock® Brand Joint Tape and treat fasteners with CGC Sheetrock® Brand Durabond® Setting-Type Joint Compound (45 or 90) applied in a conventional manner. Flat trowel setting-type compound over board to cover fasteners and fill voids to a smooth surface. Finish joints with at least two coats of CGC Sheetrock® or Synko® Brand Ready-Mixed All-Purpose Joint Compound. Do not apply ready-mixed or setting-type joint compound over unsealed board.

## LIMITATIONS

1. Tile must be applied on the gray-coated side of panel. Panels are designed for interior use only and should not be used around fireplaces or areas where prolonged exposure to heat exceeds 52°C (125°F) or for exterior applications. Use framing or furring when applying over concrete or masonry block. Install vapor retarders suitable for bonding tiles on the face of the panels.
2. For wall applications, maximum stud spacing is 406 mm (16 in.) o.c., or 610 mm (24 in.) o.c. with back-blocking at horizontal joints. Framing shall be designed (based on stud properties alone) not to exceed L/360 deflection for tile and thin brick. Maximum fastener spacing: 200 mm (8 in.) o.c. for wood and steel framing; 150 mm (6 in.) o.c. for ceiling applications.
3. For floor applications, maximum joist spacing 610 mm (24 in.) o.c. The subfloor system should be designed with a maximum 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 shall 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. Do not use where temperature will be above 52°C (125°F).
5. Maximum dead load for ceiling system is 7.5 psf.
6. Steel framing must be 20-gauge equivalent or heavier.
7. Do not use drywall screws or drywall nails. Do not use drywall joint tape.
8. Do not use with vinyl flooring or over a concrete subfloor.
9. CGC Durock™ Glass-Mat Tile Backerboard is not designed for use as a structural panel.
10. Panels should not be used in select wet areas including commercial saunas or steam rooms, gang showers, or shower pan bases.
11. Waterproofing membrane must be used over CGC Durock™ Glass-Mat Tile Backerboard in select wet areas including indoor hot tub decks, shower benches and niches, tiled wall and ceiling applications in indoor pool areas, and tiled wall and ceiling applications in residential steam rooms, per ANSI A118.10. (See above Installation E.)
12. Maximum installed weight of the finished system should not exceed 15 psf.

## TECHNICAL DATA

Property	Unit of Measure	Test Method	12.7 mm (1/2 in.) CGC Durock™ Brand Glass-Mat Tile Backerboard	15.9 mm (5/8 in.) CGC Durock™ Brand Glass-Mat Tile Backerboard (UL Type SGX)
<b>Weight</b>	kg/m <sup>2</sup> (lbs./ft <sup>2</sup> )	ASTM C473	8.3 (1.7)	12.2 (2.5)
<b>Flexural strength</b>	Parallel Perpendicular	N (lbf)	ASTM C473 >356 (80) >445 (100)	>445 (100) >787 (177)
<b>Nail pull</b>	N (lbf)	ASTM C473	>311 (70)	>400 (90)
<b>Shear bond strength</b>	kPa (psi)	ANSI A118.1/ ANSI A118.4/ ANSI A136.1	>345 (50)	>345 (50)
<b>Surface-burning characteristics</b>	Flame spread Smoke developed	CAN/ULC-S102	10 5	10 5
<b>Fire resistance</b>	—	—	—	Type X
<b>Thermal resistance</b>	hr-°F-ft <sup>2</sup> /Btu	ASTM C518	0.42	0.44
<b>Mould resistance</b>	—	ASTM D3273	10	10
<b>Floor system service rating</b>	Service rating	ASTM C627	See table below	See table below
<b>Minimum bending radius</b>	mm (ft.)	—	3660 (12)	6100 (20)
<b>VOC</b>	Pass/fail	CDPH V1.1	Pass	Pass
<b>Permeability</b>	Perm	ASTM E96 Procedure A	<3	<3

## FLOOR SYSTEM SERVICE RATING

TESTED AT THE TILE COUNCIL  
OF NORTH AMERICA PER ASTM C627

Joist spacing (mm [in.] on center)	Tile Size		
	50 mm x 50 mm (2 in. x 2 in.)	150 mm x 150 mm (6 in. x 6 in.)	200 mm x 200 mm (8 in. x 8 in.)
<b>406 mm (16 in.) o.c.</b>	Residential	Light commercial	—
<b>488 mm (19.2 in.) o.c.</b>	Residential	Light commercial	—
<b>610 mm (24 in.) o.c.</b>	—	—	Light commercial

### PRODUCT INFORMATION

See [cgcinc.com](http://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 a physician. Do not swallow. If swallowed, call a physician. For more information, please visit [cgcinc.com](http://cgcinc.com) to view the Safety Data Sheet (SDS).

**KEEP OUT OF REACH OF CHILDREN.**

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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.

## SUBMITTAL APPROVALS

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

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