



CGC DUROCK™ BRAND GLASS-MAT TILE BACKERBOARD

- 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 cementitious coating provides exceptional tile bond performance

DESCRIPTION

CGC Durock™ Brand Glass-Mat Tile Backerboard is a moisture and mould-resistant gypsum panel with a fiberglass mat facer and back. The face of the panel is treated with a patented cementitious coating for moisture resistance and enhanced tile bond, making it ideal as a tile substrate for wet areas Res1, Res2, Res3, Com1, Com2 and Com3 as defined by the *Tile Council of North America Handbook 2014*. CGC Durock Glass-Mat Tile Backerboard combines the tile bond of cement board with the handling and ease of use of a CGC Sheetrock® Brand Panel. The 15.9 mm (5/8") Type X panels are UL classified as fire-resistant.

PRODUCT DATA

Size (thickness x width x length) ¹	Units (pcs) ¹
12.7 mm x 1220 mm x 2440 mm (1/2" x 4' x 8')	50
15.9 mm x 1220 mm x 2440 mm (5/8" x 4' x 8')	40

1. Shipped in units as shown.

STANDARDS

CGC Durock Glass-Mat Tile Backerboard exceeds ASTM C1178, which is the standard specification for coated glass-mat water-resistant gypsum backing panels.

AVAILABILITY

CGC Durock Glass-Mat Tile Backerboard is distributed throughout Canada. Contact the CGC 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 cementitious surface. The panels are square edge.

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°C and 37°C (40°F and 100°F). Adequate ventilation shall be provided to carry off excess moisture. Low temperatures and high relative humidity will increase the time needed.

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™ Brand 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 31 mm (1-1/4") CGC Durock™ Brand Tile Backer Screws for wood framing (or equivalent) 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 9.5 mm (3/8") and less than 15.9 mm (5/8") 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 maximum 203 mm (8") o.c. for walls, 152 mm (6") o.c. for ceilings, with perimeter fasteners at least 9.5 mm (3/8") and less than 15.9 mm (5/8") 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), 31 mm and 41 mm (1-1/4" and 1-5/8") for 14- to 20-gauge steel framing; CGC Durock Tile Backer Screws for wood framing (or equivalent), 31 mm, 41 mm and 57 mm (1-1/4", 1-5/8" and 2-1/4") for wood framing; and nails (38 mm [1-1/2"] hot-dipped galvanized roofing nails). Prefill joints and then immediately embed CGC Durock Tile Backer Tape and level joints. Maintain 6 mm (1/4") gap between CGC Durock Glass-Mat Tile Backerboard and tub surround.
- 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 dust-collection device. Installer should wear NIOSH/MSHA-approved dust mask.
- E. If waterproofing is required, treat joints and fastener penetrations with CGC Durock™ Brand Waterproofing Membrane or equivalent ANSI A118.10 waterproofing membrane. Refer to the current CGC Durock Waterproofing Membrane submittal sheet (DSS_MEMBRANE_DS_CB595) or waterproofing membrane manufacturer's installation recommendations. For technical assistance, contact your local CGC representative.
- F. In areas where standing water could occur on horizontal surfaces, such as shower benches or niches, waterproofing is required with CGC Durock Waterproofing Membrane or equivalent ANSI A118.10 waterproofing membrane. Refer to the current CGC Durock Waterproofing Membrane submittal sheet (DSS_MEMBRANE_DS_CB595) or waterproofing membrane manufacturer's installation recommendations.

LIMITATIONS

1. Tile must be applied on the cementitious-coated (gray) 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 vapour retarders suitable for bonding tiles on the face of the panels.
2. For wall applications, maximum stud spacing: 406 mm (16") (610 mm [24"] 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. Maximum fastener spacing: 203 mm (8") o.c. for wood and steel framing; 152 mm (6") o.c. for ceiling applications.
3. For floor applications, maximum joist spacing 610 mm (24") 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. Maximum dead load for ceiling system is 36 kg/m² (7.5 lbs./ft²).
5. Steel framing must be 20-gauge equivalent or heavier.
6. Do not use drywall screws or drywall nails. Do not use drywall joint tape.
7. Do not use with vinyl flooring or over a concrete subfloor.
8. CGC Durock Glass-Mat Tile Backerboard is not designed for use as a structural panel.
9. Panels should not be used in select wet areas including commercial saunas or steam rooms, gang showers, or shower pan bases.
10. 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.

TECHNICAL DATA

Property	Unit of Measure	Test Method	15.9 mm (5/8") CGC Durock™ Brand Glass-Mat Tile Backerboard Type X	12.7 mm (1/2") CGC Durock™ Brand Glass-Mat Tile Backerboard
Weight	kg/m² (lbs./ft²)	ASTM C473	12.2 (2.5)	8.3 (1.7)
Flexural strength	N (lb)	ASTM C473	>623 (140) (perpendicular) >445 (100) (parallel)	>445 (100) (perpendicular) >356 (80) (parallel)
Nail pull	N (lb) (6.3 mm [0.25"] head diameter)	ASTM C473	>400 (90)	>311 (70)
Shear bond strength	kPa (psi)	ANSI A118.1/ANSI A118.4/ANSI A136.1	>345 (50)	>345 (50)
Surface burning characteristics	Flame spread/ smoke developed	CAN/ULC-S102 ASTM E84	10/5 15/5	10/5 15/5
Fire resistance	—	—	Type X	—
Thermal resistance	hr·°F·ft²/Btu	ASTM C518	0.44	0.42
Mould resistance	—	ASTM D3273	10	10
Floor system service rating	Service rating	ASTM C627	See table below	See table below
Minimum bending radius	mm (ft)	—	6100 (20)	3660 (12)
Smoke toxicity	Toxicity index	NES 713	0.03 (No toxic gases)	0.03 (No toxic gases)
VOC	Pass/fail	CDPH V1.1	Pass	Pass
Permeability	Perm	ASTM E96 Procedure A	<1	<1.5

FLOOR SYSTEM SERVICE RATING

TESTED AT THE TILE COUNCIL
OF NORTH AMERICA PER ASTM C627

	Tile Size		
Joist spacing—mm (inch)	51 mm x 51 mm (2" x 2")	152 mm x 152 mm (6" x 6")	203 mm x 203 mm (8" x 8")
406 (16)	Residential	Light commercial	—
488 (19.2)	Residential	Light commercial	—
610 (24)	—	—	Light commercial

PRODUCT INFORMATION

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

WARNING

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.

Product safety information: 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.

800.387.2690
cgcinc.com

Manufactured by:
CGC Inc.
350 Burnhamthorpe Rd. W, 5th Floor
Mississauga, ON L5B 3J1

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