

CGC DUROCK™ BRAND ULTRALIGHT FOAM TILE BACKERBOARD



DESCRIPTION

Foam Tile Backerboard for ceramic tile

- Lightweight, waterproof and vapour retardant
- Rugged facer on extruded foam core
- Fastens without washers
- Cuts easily with utility knife and dust free
- Suitable for continuous-use steam showers
- Ideal for use with CGC Durock™ Brand Shower System components

CGC Durock™ Brand UltraLight Foam Tile Backerboard offers architects, builders and tile contractors a strong, lightweight, waterproof and vapour retardant tile base for wet areas Res1, Res2, Res3, Res4, Com1, Com2, Com3, Com4, as defined by the *Tile Council of North America Handbook 2014*. The board is readily applied over wood or steel framing spaced 406 mm (16") o.c. with corrosion-resistant cement board wood or steel screws or hot-dipped galvanized roofing nails. Unlike other foam board, washers are not required for installation.

PRODUCT DATA

Sizes and Packaging

Size (thickness x width x length)	Units (pcs) ¹
6.4 mm x 915 mm x 1525 mm (1/4" x 3' x 5')	60
12.7 mm x 915 mm x 1525 mm (1/2" x 3' x 5')	50
15.9 mm x 915 mm x 1525 mm (5/8" x 3' x 5')	40
25.4 mm x 635 mm x 2440 mm (1" x 25" x 8')	15
38.1 mm x 635 mm x 2440 mm (1-1/2" x 25" x 8')	10
50.8 mm x 635 mm x 2440 mm (2" x 25" x 8')	8

1. Shipped in packaging units as shown.

Standards: CGC Durock UltraLight Foam Tile Backerboard (core) meets International Building Code requirements up to 51 mm (2") thick when tested in accordance with ASTM E84. 51 mm (2") -thick panels, when finished with 102 mm x 102 mm (4"x4") tile, pass full-scale room corner test without washers in accordance with NFPA286. The board also meets IAPMO PS 106 *Tileable Shower Receptors and Shower Kits*. Panels meet the School Classroom criteria CA Specification 01350 (CA Department of Health Services *Standard Practice for the Testing of VOC Emissions*).

Availability: CGC Durock UltraLight Foam Tile Backerboard is distributed throughout Canada. Contact a CGC sales office or CGC representative for additional information.

Composition and Materials: CGC Durock UltraLight Foam Tile Backerboard is composed of a rugged thermoplastic facer and backing, combined with an extruded foam core.

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. Store all CGC Durock UltraLight Foam Tile Backerboard panels flat.

INSTALLATION

Environmental Conditions: In cold weather and during CGC Durock™ Brand UltraLight Foam Tile Backerboard panel and tile installation, temperatures within the building shall be maintained within the range of 4°C to 38°C (40°F to 100°F).

Interior Applications: Wood framing shall approximate the moisture content it will reach in service prior to the application of the foam tile backerboard.

- A. Install 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 UltraLight Foam Tile Backerboard to subfloor using unmodified thin-set mortar. Fasten to subfloor with 32 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 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 sub floor. Do not overdrive fasteners. Finish joints with CGC Durock™ Brand Waterproofing Membrane Band 127 mm (5") wide, adhered with unmodified thin-set mortar and treat fastener penetrations with USG Durock™ Brand Sealant. Apply only enough sealant to sufficiently cover the fastener head and then strike flush using a 1" putty knife in order to minimize spread of sealant. For applications not requiring waterproofing, pre-fill joints with unmodified tile-setting mortar and then immediately embed CGC Durock™ Brand Tile Backer Tape and level joints. Do not use CGC Durock Tile Backer Tape for waterproofing or steam room applications. Use unmodified thin-set mortar to set tiles.
- C. For wall application, fasten CGC Durock UltraLight Foam Tile Backerboard 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 203 mm (8") o.c. for walls, with perimeter fasteners at least 9 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 framing. Do not overdrive fasteners. Approved fasteners include: CGC Durock Tile Backer Screws for steel framing (or equivalent), 32 mm (1-1/4") and 41 mm (1-5/8") for 14- to 20-gauge steel framing; CGC Durock Tile Backer Screws for wood framing (or equivalent), 32 mm (1-1/4"), 41 mm (1-5/8"), and 57 mm (2-1/4") for wood framing. Nails (38 mm [1-1/2"] hot-dipped galvanized roofing nails). Finish joints with CGC Durock Waterproofing Membrane Band 127 mm (5") wide, adhered with unmodified thin-set mortar and treat fastener penetrations with CGC Durock™ Brand Sealant. Apply only enough sealant to sufficiently cover the fastener head and then strike flush using a 1" putty knife in order to minimize spread of sealant. For applications not requiring waterproofing, pre-fill joints with unmodified tile-setting mortar and then immediately embed CGC Durock Tile Backer Tape and level joints. Do not use CGC Durock Tile Backer Tape for waterproofing or steam room applications. Use unmodified thin-set mortar to set tiles.
- D. Panels should be cut to size with a knife and straight edge.
- E. For 25.4 mm (1"), 38.1 mm (1-1/2") and 50.8 mm (2") thick board, fasten with 64 mm (2-1/2"), 76 mm (3") and 89 mm (3-1/2") (respectively) corrosion resistant wafer-head screws with a minimum head diameter of 10 mm (3/8").

For technical assistance, contact a CGC sales office or CGC Representative.

LIMITATIONS

- 1. The maximum installed weight of the finish system should not exceed 15 psf.
 - 2. Wall applications: Maximum stud spacing: 406 mm (16") o.c. 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.
 - 3. Floor applications: Maximum joist spacing 488 mm (19.2") o.c. The subfloor system should be designed with a 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 a minimum 18 mm (23/32") thick APA Span-Rated Plywood or OSB with an Exposure 1 classification or better with tongue and groove or back blocked at the unsupported edges. Use only 6.3 mm (1/4") board for floor applications.
 - 4. 6.3 mm (1/4") CGC Durock UltraLight Foam Tile Backerboard is not intended for use as a shower pan base.
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LIMITATIONS (CONTINUED)

5. Steel framing must be 20-gauge equivalent or heavier.
6. Designed for positive or negative uniform loads up to 15 psf for hard surfaces such as tile.
7. Do not use drywall screws or drywall nails. Do not use drywall joint tape.
8. Do not use 6.3 mm (1/4") CGC Durock™ Brand UltraLight Foam Tile Backerboard as the sole substrate in wall applications. Minimum board thickness for open stud wall framing with studs spaced 406 mm (16") o.c. is 12.7 mm (1/2") thick.
9. Do not use CGC Durock UltraLight Foam Tile Backerboard with vinyl flooring, carpet or any other types of polymer-based flooring.
10. Do not use CGC Durock UltraLight Foam Tile Backerboard as a structural panel.
11. Do not use CGC Durock UltraLight Foam Tile Backerboard in ceiling applications.
12. Do not use any organic mastics to install tiles on CGC Durock UltraLight Foam Tile Backerboard.
13. In conditions that require vapour consideration, design professionals and/or architects should use caution to prevent double vapour barriers. CGC Durock UltraLight Foam Tile Backerboard is vapour retardant.
14. Product should not be exposed to temperatures exceeding 100 °C (212 °F).
15. Product is not compatible with organic solvents or organic-based adhesives.
16. For swimming pool areas or steam shower applications, the design professional should consider fasteners with increased corrosion resistance to account for exposure to pool chemicals and/or cleaning agents.
17. The location and detailing of control joints is the responsibility of the design professional. The proper use of control joints will accommodate stresses within and placed upon the tile backer to minimize the chances for development of cracks and joint ridges.

TECHNICAL DATA

CGC Durock Ultralight Foam Tile Backerboard								
Property	Unit of Measure	ASTM Test Method	6.4 mm (1/4")	12.7 mm (1/2")	15.9 mm (5/8")	25.4 mm (1")	38.1 mm (1-1/2")	50.8 mm (2")
Weight	psf	C473	0.31	0.35	0.38	0.50	0.60	0.71
Hydrostatic pressure resistance	Pass/fail	ANSI A118.10	Pass	Pass	Pass	Pass	Pass	Pass
Fungus and micro-organism growth resistance	Pass/fail	ANSI A118.10	Pass	Pass	Pass	Pass	Pass	Pass
Shear bond strength (7d dry, 7d wet)	psi	ANSI A118.10	>50	>50	>50	>50	>50	>50
Nail pull resistance	lbs. (10mm [0.375"] head diameter, wet or dry)	C1325	>60	>60	>60	>60	>60	>60
Floor System Service Rating	Passes cycles 1-6	C627	Residential*	N/A	N/A	N/A	N/A	N/A
Room corner test	Pass/fail	NFPA 286	Pass	Pass	Pass	Pass	Pass	Pass
Surface burning characteristics (core)	Flame/smoke	E84	10/250	10/250	10/250	10/250	10/250	10/250
Flexural Strength (406 mm [16"] span, 305 mm [12"] wide)	lbs	C203	>35	>45	>55	>75	>90	>110
Linear expansion	%	D1037	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Impact load test on walls	Pass/fail	CSA B45.5/IAPMO Z124	N/A	Pass	Pass	Pass	Pass	Pass
Water vapour permeance	Perm	E96 procedure E (38 °C [100 °F], 90% RH)	N/A	<0.1	<0.1	<0.1	<0.1	<0.1

*Minimum tile size is 102 mm x 102 mm (4" x 4") except for 406 mm (16") centered framing where 51 mm x 51 mm (2" x 2") tile may be used.

FLOOR SYSTEM SERVICE RATING

6.3 MM (1/4") CGC DUROCK™ BRAND ULTRALIGHT FOAM
TILE BACKERBOARD TESTED AT THE TILE COUNCIL OF
NORTH AMERICA PER ASTM C627

Joist spacing	Plywood thickness & type	Tile size – ceramic floor	Rating
406 mm (16")	18.3 mm (23/32") plywood APA rated exposure 1	51 mm x 51 mm (2"x2")	Residential
488 mm (19.2")	18.3 mm (23/32") plywood APA rated exposure 1	102 mm x 102 mm (4"x4")	Residential

PRODUCT INFORMATION

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

WARNING

Dust can contain silica. Prolonged and repeated breathing of silica dust can cause lung damage and cancer. If cutting with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Dust can be corrosive to eyes, skin, and respiratory tract. Contact can cause severe chemical burns. Wear eye, skin and respiratory protection. If eye contact occurs, flush immediately with water for 30 minutes. If ingested, call 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.

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