

Private: WonderBoard® Lite Backerboard

1. Product Name

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2. Product Description

A 20% lighter fiberglass mesh-reinforced cement backerboard for residential and commercial tile, stone, slate, and thin-brick applications.

Key Features

- Meets the performance standards of ANSI A118.9
- High flexural strength
- Is moisture resistant and can be used in wet areas
- For interior and exterior substrate applications
- Contains no fiber or gypsum

Uses

- Walls
- Floors
- Ceilings
- Counters
- Vanities

Composition of Product

WonderBoard® Lite panels are composed of stable Portland cement, EPS beads, aggregates and reinforcement.

Benefits of Product in the Installation

- New formula -- same durable performance with faster, easier installation.
- 7/16 board aligns to 1/2" (13 mm) drywall without use of shims or spacers on wall studs.
- WonderBoard® Lite includes a preprinted pattern on the panel surface and is easy to score, snap, cut and fasten, simplifying installation.
- Remains stable when exposed to moisture, reducing risk of moisture damage.

Limitations to the Product

- Do not use WonderBoard® Lite for exterior surfaces where imposed wind loads exceed 30 lb/sq ft (146 kg/sq m).
- Do not use WonderBoard® Lite as a structural load bearing member.
- WonderBoard® Lite is not a waterproof barrier. If the area behind the backerboard must be kept dry, use RedGard® Waterproofing and Crack Prevention Membrane or Custom® 9240 Waterproofing and Anti-Fracture Membrane
- Do not use drywall fiberglass tape for this product.
- Do not use wallboard joint compound for this product.

3. Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.11, A118.9, A108.5 and A118.4 American National Standards for the Installation of Ceramic Tile ASTM International (ASTM) ASTM C1325

- ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type

Floor Tester

- ASTM C947 Standard Test Method for Flexural Properties of Thin-Section Glass-Fiber-Reinforced Concrete (Using Simple Beam With Third-Point Loading)
- ASTM D1037 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- ASTM D2394 Standard Methods for Simulated Service Testing of Wood and Wood-Base Finish Flooring
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

National Fire Protection Association (NFPA) NFPA 255 Standard Method of Test of Surface Burning Characteristics of Building Materials

Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of WonderBoard® products can contribute to LEED® Certification.

Application of Product

Wood Floors

For the subfloor, securely glue and fasten minimum 5/8" (16 mm) exterior grade plywood or OSB panels (PRP-108) to the floor joists. Floor joists should be spaced a maximum of 16" (40 cm) o.c.; a 3/4" (19 mm) Exterior Grade Plywood or OSB subfloor with I-joists spaced a maximum of 19.2" (48 cm) o.c. is also acceptable. When setting dimensional stone larger than 12" x 12" (30 x 30 cm), a 3/4" (19 mm) non-deflecting subfloor is required. All plywood or OSB subfloor sheets must be gapped 1/8" (3 mm). Use 1" (2.5 cm) bond-breaker tape over gaps in the subfloor to prevent gaps from filling with thin-set. Using a 1/4" (6 mm) square-notch trowel, apply a setting bed of polymer-modified mortar to the subfloor. Immediately laminate the WonderBoard® Lite to the subfloor, leaving a 1/8" - 3/16" (3-5 mm) space between the boards at all joints and corners. Stagger joints so they do not line up with underlying substrate joints. While the setting bed mortar is still workable, fasten WonderBoard® Lite every 4" - 6" (10-15 cm) o.c. throughout the board field and around all edges. Around the perimeter of each board, locate fasteners within 1/2"-1" (1.3-2.5 cm) of the edge. Fill all joints and corners, prefill the gap with polymer-modified bonding mortar; then embed 2" (5 cm) mesh tape and smooth material over the joint and corner.

Walls and Ceilings

For wall framing, edges parallel to framing should be continuously supported (typical sleeper studs should be used). Framing for a tub surround or prefabricated shower pan should be plumb and square. Provisions for the sheet membrane pan liner must be made to ensure proper backerboard installation at the interface of the tub or pan flange. For ceiling framing, the complete ceiling assembly allowable deflection due to dead load should not exceed 1/360 of the span. Framing members in the walls and ceiling should not exceed 16" (40 cm) o.c. The weight applied to the walls and ceiling frame, including insulation, backerboard, bonding material and facing material, should not exceed 15 lb/ft (73 kg/M). Backerboard edges parallel to the framing should be continuously supported. Provide additional blocking, when necessary, to permit proper backerboard attachment and reduce deflection between the joists.

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Leaving a 1/8" 3/16" (3-5 mm) space at all joints and corners, install the WonderBoard® Lite panels. Stagger board joints with those of adjacent rows. Fasten the backerboard every 6" (15 cm) along the joist or rafter. It is recommended that blocking be installed between the joists to support the ends of the backerboard. Fill all joints and corners, prefill the gap with polymer-modified bonding mortar, and then embed 2" (5 cm) mesh tape and smooth the material over the joint and corner.

A moisture barrier must be installed to protect the wall cavity for wet area installations. Nail or staple 15 lb roofing felt or 4 mil polyethylene sheeting to the studs. Precut WonderBoard® Lite panels and make any necessary cutouts. Install WonderBoard® Lite, leaving a 1/8"-3/16" (3-5 mm) space at all joints and corners. Stagger board joints with those of adjacent rows. Fasten backerboards every 8" (20.3 cm) o.c. along studs. At all joints and corners, prefill gaps with polymer-modified mortar, then embed 2" (5 cm) alkali-resistant fiberglass mesh tape and smooth material over joint and corner. Any shelf, ledge or horizontal surface subjected to water exposure must have a slight downward slope for water runoff. These areas also require proper waterproofing. Apply RedGard® according to directions.

For installation of tile, natural stone or a similar material, comply with ANSI A108 standard specifications. Install according to installation instructions for the corresponding mortar data sheets.

Health Precautions

This product, when cut, drilled or abraded, produces dust containing free silica, which may cause cancer or delayed lung injury (silicosis) if inhaled. Work outdoors, in a well-ventilated area, or use mechanical ventilation. Wear safety glasses and a dust mask; in very dusty areas or where airborne dust exceeds PEL, wear a NIOSH/MSHA approved respirator. This product contains one or more chemicals known to the State of California to cause cancer.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

4. Availability & Cost

Item Code	Size
GCB60L	36" x 60" x 7/16" (91 cm x 153 cm x 11 mm)
FLB60L	36" x 60" x 1/4" (91 cm x 153 cm x 6 mm)

5. Product Warranty

This product is eligible for Custom® Building Products' Lifetime Backerboard Warranty. Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's® sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's® printed instructions. Custom® makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another.

6. Product Maintenance

Properly installed product requires no special maintenance.

7. Technical Services Information

For technical assistance, contact Custom® Building Products.

8. Filing System

Additional product information is available from the manufacturer upon request.

Related Products

SpeedFinish™ Patching & Finishing Compound