

# EASYBOARD® LIGHTWEIGHT BACKERBOARD

## 1. Product Name

EasyBoard® Lightweight Backerboard

## 2. Manufacturer

Custom Building Products  
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## 3. Product Description

EasyBoard® Backerboard by Custom Building Products is a high performance, lightweight backerboard that functions as part of a complete tile and stone installation system. Significantly lighter than traditional cement backerboards, EasyBoard is easy to install and cuts cleanly with a utility knife. For both residential and light commercial applications, it can serve as a substrate for interior ceramic tile, stone, slate and thin brick veneer applications.

Uses for 1/4" EasyBoard include:

- Floors
- Counters
- Vanities

Uses for 1/2" EasyBoard include:

- Walls
- Ceilings
- Counters
- Vanities

### COMPOSITION & MATERIALS

EasyBoard panels are comprised of closed cell polyisocyanurate foam with fiberglass reinforced facers.

### SIZES

1/2" EasyBoard

- 36" x 60" x 1/2" (914 x 1524 x 13 mm)
- 6 lb (2.7 kg)

1/4" EasyBoard

- 36" x 60" x 1/4" (914 x 1524 x 6 mm)
- 5 lb. (2.3 kg)

### BENEFITS

- Reduced weight loads simplify delivery and handling in the field
- Cuts cleanly and easily with a utility knife to simplify installation
- Tested and approved for residential and light commercial applications
- Provides a stable surface for the application of tile and stone products
- Protected by MoldGard® Technology to resist mold and mildew

### LIMITATIONS

- EasyBoard is for interior use only.
- Do not use EasyBoard as a structural load bearing member.
- EasyBoard is not a water barrier. If the area behind the backerboard must be kept dry, use RedGard® Waterproofing and Crack Prevention Membrane.
- Do not use drywall fiberglass tape for this product.
- Do not use wallboard joint compound for this product.

## 4. Technical Data

### APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108.11, A118.4 A118.11, A136 of the American National Standards for the Installation of Ceramic Tile

### ASTM International (ASTM)

- 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
- ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

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, TCA Method EJ171 and related foam core backer unit installation methods

Underwriters Laboratories, Inc. (UL) — ANSI/UL 263 Fire Tests of Building Construction and Materials

Underwriters' Laboratories of Canada (ULC) — CAN/ULC S101 Standard Method of Fire Endurance Tests of Building Construction and Materials

## TILING 09 28 00

### APPROVALS

#### Fire Performance

EasyBoard has achieved the following surface burning characteristics:

- Flamespread - 30
- Smoke developed - 25
- NFPA Class B

### TECHNICAL PROPERTIES

Property	1/4" EasyBoard	1/2" EasyBoard
ASTM C947		
Flexural strength	300 psi (21 kg/cm <sup>2</sup> )	300 psi (21 kg/cm <sup>2</sup> )
ASTM D1037		
Fastener holding	40 lb. (18 kg)	40 lb (18 kg)
Linear variation with moisture change	0.07%	0.07%
ASTM C473		
Facial dimension	± 1/8" (3 mm)	± 1/8" (3 mm)
Thickness	± 1/32" (0.8 mm)	± 1/32" (0.8 mm)
ASTM C627		
Robinson floor test	Light commercial	Light commercial
Tensile bond to surface	50 psi min	50 psi min
Shear bond strength to surface	50 psi min	50 psi min
Bacterial & fungus resistance	No growth	No growth
Fire Performance	NFPA Class B	NFPA Class B
Flamespread	30	30
Smoke developed	25	25
Weight	0.3 lb/ft <sup>2</sup> (1.5 kg/m <sup>2</sup> )	0.4 lb/ft <sup>2</sup> (1.9 kg/m <sup>2</sup> )

### ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

Use of EasyBoard products can contribute to LEED® certification.

## 5. Installation

For joint reinforcement, use 2" (5 cm) polymer coated, alkali-resistant fiberglass mesh tape and thin-set mortar.

For joint treatment and to set facing material, use a polymer modified thin-set mortar. All mortars should comply with A118.4 standards. Type I organic adhesives meeting ANSI A136.1 may be used in dry and counter top areas.

Use 1.5" (38 mm) galvanized roofing nails or 1.25" (32 mm) SuperiorBilt® backerboard screws. For wood or 20 gauge steel framing, use 1.25" (32 mm) SuperiorBilt backerboard screws or an equivalent.

Tiled surfaces that exceed 24' (7.32 m) in a continuous plane or with surfaces that abut a dissimilar structure should incorporate perimeter and generic movement joints in the tile network. Location width and details of control joints must follow sound architectural practices. See TCA Handbook EJ171.

## BACKING BOARDS AND UNDERLAYMENTS

### METHODS

#### Wood Floors:

##### 1/4" EasyBoard

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) 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 1/4" EasyBoard 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 EasyBoard 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 with polymer-modified mortar. On all joints and corners, pre-fill the gap with bonding material; then embed 2" (5 cm) mesh tape and smooth material over the joint and corner. Use 1" (2.5 cm) bond breaker tape over gaps in the sub-floor.

#### Wood Counters:

##### 1/4" EasyBoard, 1/2" EasyBoard

Securely fasten 3/4" (19 mm) exterior grade plywood counter base to the cabinet. The variation in the plywood surface should be a maximum 1/8" (3 mm) in 10' (3 m) from the required plane. It is also recommended that plywood be cut in a dot dash fashion with a circular saw.

Apply a moisture barrier of 15 lb (6.8 kg) roofing felt or 4 mil polyethylene film between the plywood and the backerboard. Secure EasyBoard with 3/4" (19 mm) galvanized roofing nails or with SuperiorBilt backerboard screws. Place fasteners every 4" – 6" (10 – 15 cm) throughout the panel field and around the perimeter. Fill all joints between panels with a polymer modified thin-set mortar. Taping of joints is not required. Any change of plane, such as a joint where counter tile and wall tile meet, must be caulked with a flexible sealant.

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Walls and Ceilings:

1/2" EasyBoard

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 ceiling should not exceed 16" (40 cm) o.c. The weight applied to the ceiling frame, including insulation, backerboard, bonding material and facing material, should not exceed 15 lb/ft<sup>2</sup> (73 kg/m<sup>2</sup>). 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.

Leaving a 1/8" – 3/16" (3 – 5 mm) space at all joints and corners, install the EasyBoard 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. On all joints and corners, pre-fill the gap with bonding material, 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 1/2" EasyBoard panels and make any necessary cutouts. Install EasyBoard, 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, pre-fill 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.

### PRECAUTIONS

The facer of this product contains fiberglass. Wear work gloves, eye protection and a dust mask while working. Avoid eye contact or prolonged contact with skin and wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Wash thoroughly after handling.

### BUILDING CODES

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

## BACKING BOARDS AND UNDERLAYMENTS

### 6. Availability & Cost

EasyBoard is available through commercial and retail distributors throughout the United States. Visit the [www.custombuildingproducts.com](http://www.custombuildingproducts.com) website for additional information about availability.

### 7. Warranty

EasyBoard is eligible for a residential lifetime installation system 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. Sole liability under this warranty shall be limited to the replacement of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. This warranty will not extend to any product modified in any way or not used in accordance with the manufacturer's printed instructions.

Custom Building Products makes no other warranties, either express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

For details and complete warranty information, visit the Custom Building Products website: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).

### 8. Maintenance

Properly installed product requires no special maintenance.

### 9. Technical Services

For technical assistance, contact Custom Building Products or visit the website: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).

### 10. Filing Systems

Additional product information is available from the manufacturer upon request.

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