

TOOLS AND MATERIALS CHECKLIST

SCORE/CUT

- Level or straightedge
- Scoring tool
- Square notch trowel
- Hammer
- Drill and drill bits

BOND

- Latex or acrylic-modified mortar such as FlexBond® Fortified Thin-Set Mortar or Mix PremiumPlus® or MasterBlend™ Standard Thin-Set Mortars with Acrylic Mortar Admix (AMA)

FASTEN

- 1 1/2" galvanized roofing nails or SuperiorBilt® Concrete Backerboard Screws
- 2" wide alkali-resistant fiberglass joint tape

For Best Quality Use SuperiorBilt Tools.

SUPERIORBITL



Product Specifications

Sizes

1/4" (6 mm) thickness	1/2" (12 mm) thickness
36" x 48" or 60" length	36" x 48", 60" or 96" length
(90 cm x 120 or 150 cm length)	(90 cm x 120, 150 or 240 cm length)
24 lbs. (36" x 48" sheet)	36 lbs. (36" x 48" sheet)

Uses

- Horizontal or vertical (1/2" only) applications such as walls, ceilings, floors, decks, countertops and vanities.
- Interior and exterior use.
- Use under any tile or natural stone.

Warranty

WonderBoard is part of the Custom Building Products' Lifetime Backerboard Systems Warranty. Call Technical Services at 800-272-8786.

Limitations

WonderBoard must not be used as a structural load-bearing member. Foundation must be sound at all times. WonderBoard is unaffected by water but is not a water barrier.

Warning

Avoid breathing silica dust. 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. Please wear approved safety glasses and dust mask. If in dusty areas or where airborne dust exceeds PEL wear NIOSH/MSHA approved respirator. This product contains one or more chemicals known to the State of California to cause cancer. See Material Safety Data Sheet for detailed information.

Technical Data (1/2" WonderBoard)

Fire Resistance Ratings UL Rated Report No. 7L30 for floor protector and wall shield. One-hour rated – non-load-bearing WHI 651-0381.01 7-10-91. Exceeds ANSI A118.9 specifications. CABO/NES Report NER #447.

TECHNICAL DATA

PROPERTY	ANSI A118.9 REQ.	ASTM TEST	1/2" WB	1/4" WB
Weight	N/A	N/A	3 lbs/ft ² (1.36 kg/m ²)	2 lbs/ft ² (0.9 kg/m ²)
Compression Indentation	≤ 0.050 in. @ 1250 psi (88 kg/cm ²)	D 2394	<0.050 in. @ 2500 psi (175.8 kg/cm ²)	<0.050 in. @ 2500 psi (175.8 kg/cm ²)
Flexural Strength Wet/Dry	>750 psi	C 947	>900 psi (62.9 kg/cm ²)	>1500 psi (105.5 kg/cm ²)
Fastener Holding	>90 lb	D 1037	>140 lb (63.5 kg)	>100 lb (45.4 kg)
Linear Variation with Moisture Change	≤ 0.07%	D 1037	<0.07%	<0.07%
Flame Spread Smoke Development	10/10	E 94	0/0	0/0
Wind Load	N/A	E 330	30 lbs/ft ² (13.6 kg/m ²)	30 lbs/ft ² (13.6 kg/m ²)



CUSTOM
BUILDING PRODUCTS

Seal Beach, CA 90740
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www.custombuildingproducts.com

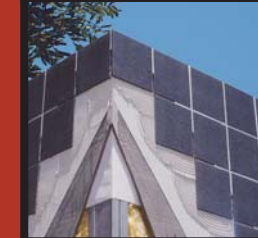
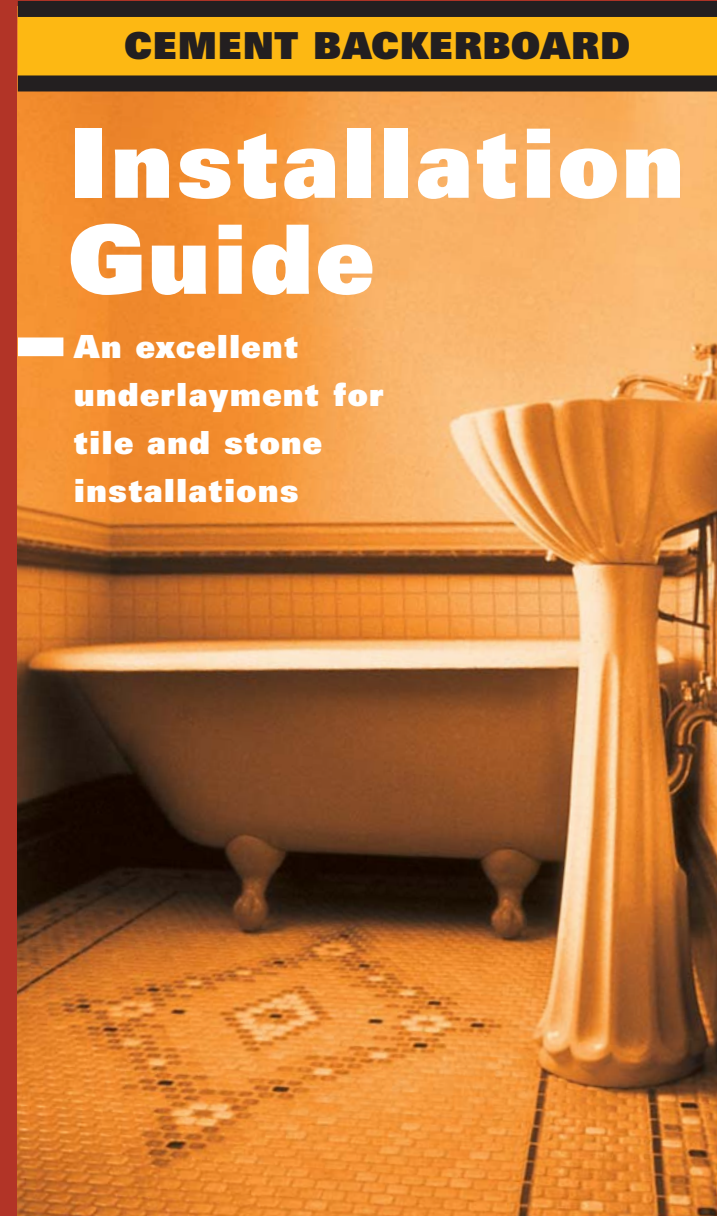
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CEMENT BACKERBOARD

Installation Guide

— An excellent underlayment for tile and stone installations



Easy to Score and Snap

Simple Installation

Tapeless installation – saves time

Versatile

The best backerboard for tile or stone installations

Unaffected by Water

Install inside or out, wet or dry conditions

Choice of Sizes

Available in 1/4" or 1/2" thicknesses

LIFETIME WARRANTY
BACKERBOARD SYSTEMS



Lifetime Warranty

No failure in 35 years

Cutting Panels



Score then snap WonderBoard

Scoring & Cutting

- With scoring tool or utility knife and straight-edge, score through fiberglass mesh on one side.
 - Snap board at score line.
 - Cut mesh on other side and snap back.
- Please wear approved safety glasses and dust mask.*
- Cut through mesh on both sides.
 - Knock out piece with hammer and smooth with file.
 - After scoring and cutting the panels and making any cutouts, you're ready to begin WonderBoard installation.

TIP:

Use a circular saw with a carbide-tipped blade for large cutouts or a drill with a masonry bit for small holes.

Floors & Countertops

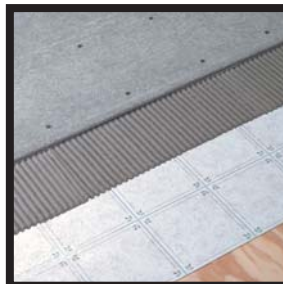


5/8" subfloor with 16" on center framing

Over Wood Subfloor

For best results, be sure plywood subfloor panels are gapped 1/8" (3 mm) at seams.

- Subfloor and countertop base should be an exterior grade plywood with a minimum thickness of 5/8" (16 mm) when using 1/2" WonderBoard. When using 1/4" WonderBoard, base should be a minimum of 3/4" (19 mm) thick. The total wood subfloor including the plywood and WonderBoard should be a minimum of 1" (2.5 cm) thickness.
- Ensure the subfloor is structurally sound and clear of debris.
- Joists or framing should be spaced no more than 16" on center.



Installation over existing vinyl floor

Over Vinyl Floors

Flooring material does not have to be removed if it is thoroughly bonded to the floor.

- Clean flooring thoroughly and remove all waxes, coatings and other contaminants.
 - Do not apply directly over cushioned or sponged back flooring.
 - Subfloor under linoleum must comply with requirements of wood subfloor and should be well bonded.
- ### Over Existing Plastic Laminated Countertops
- If thoroughly bonded and rigid, clean to remove all contaminants then roughen surface with coarse sander.
 - Remove any loose material.

Floor or Countertop Installation



Adhere to subfloor

Use 1/4" or 1/2" WonderBoard

- Using a 1/4" x 1/4" x 1/4" (6 mm x 6 mm x 6 mm) square-notch trowel, apply a leveling bed of thin-set mortar to the subfloor.
- Place WonderBoard panels perpendicular to the plywood sheets, leaving a 1/8" (3 mm) gap between each panel.
- Stagger panel joints to eliminate a continuous gap line across the floor.



Stagger surface and panel joints

- Fasten WonderBoard every 6"-8" (15 cm-20 cm) around all edges using 1 1/4" concrete backerboard screws or 1 1/2" galvanized roofing nails. Around perimeter of each board, position fasteners within 1/2"-2" (1.3 cm-5 cm) of edges and throughout the panels.
- Fill all joints between panels with thin-set mortar. Leave a 1/8"-1/4" (3 mm-6 mm) gap around perimeter of wall for expansion. Taping of floor and counter joints is not required.

TIP:

Save time by pre-cutting all panels then fastening.

Wall Installation



Fasten to studs

Use 1/2" WonderBoard for all Wall Installations

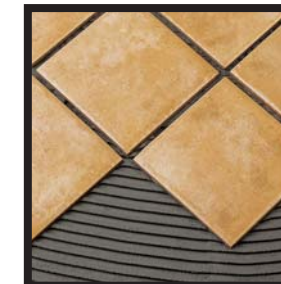
- In wet areas, nail or staple 15 lb. roofing felt or 4 mil polyethylene sheeting to studs.
- Stagger panel joints to eliminate a continuous gap line across the wall.



Tape gaps

- Fasten WonderBoard panels to studs every 6"-8" (15 cm-20 cm) around all edges using 1 1/4" concrete backerboard screws or 1 1/2" galvanized roofing nails. Around perimeter of each board, position fasteners within 1/2" - 2" (1.3 cm-5 cm) of edges. Leave a 1/8" (3 mm) gap between panels, corners and floor.
- Fill gaps between panels and corners with a thin-set mortar, then embed 2" wide (5 cm) fiberglass mesh tape and smooth.
- Where two wrapped vertical edges meet, taping is not required.

Finishing



Press tiles into place

Laying Tile

Following the thin-set mortar instructions, you can now install the floorcovering.

- Clear all debris from WonderBoard and vacuum to eliminate excess dust or dirt. Lightly dampen panels with sponge or cloth.
- Use a thin-set mortar and spread with a notch trowel (see trowel label for correct size based on tile dimensions).
- Press tile firmly into place in a perpendicular motion across ridges, moving back and forth 1/8" - 1/4" (3 mm-6 mm).

TIP:

Tile installation should cure 24 hours before applying grout.