

TOOLS AND MATERIALS CHECKLIST

SCORE/CUT

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

BOND

- Latex or polymer-modified mortar such as FlexBond® Fortified Thin-Set Mortar or Mix PremiumPlus® or MasterBlend™ Standard Thin-Set Mortars with Thin-Set Mortar Admix

FASTEN

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

For Best Quality Use SuperiorBilt Tools.

SUPERIORBILT



Product Specifications

Sizes	1/4" (6 mm) thickness	1/2" (13 mm) thickness
36" x 60" length	36" x 60" or 96" length	36" x 60" or 96" length
(90 cm x 120 or 150 cm length)	(90cm x 150 or 240 cm length)	(90cm x 150 or 240 cm length)
30 lbs. (36" x 60" sheet)	56 lbs. (36" x 60" sheet)	56 lbs. (36" x 60" 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 800-282-8786.

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. 857Y for floor protector and wall shield. One-hour rated – non-load-bearing UL R21766 Design No. U374 . Exceeds ANSI A118.9 specifications. CABO/NES Report NER #447.

TECHNICAL DATA				
PROPERTY	ANSI A118.9 REQ.	ASTM TEST	1/4" WB	1/2" WB
Weight	N/A	N/A	2 lbs/ft² (0.9 kg/m²)	<4 lbs/ft² (1.36 kg/m²)
Compression Indentation	≤0.050 in. @ 1250 psi (88 kg/cm²)	D 2394	<0.050 in. @ 2500 psi (175.8 kg/cm²)	<0.050 in. @ 2500 psi (175.8 kg/cm²)
Flexural Strength Wet/Dry	>750 psi	C 947	>1500 psi (105.5 kg/cm²)	>900 psi (62.9 kg/cm²)
Fastener Holding	>90 lb	D 1037	>100 lb (45.4 kg)	>140 lb (63.5 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/ft² (13.6 kg/m²)	30 lbs/ft² (13.6 kg/m²)



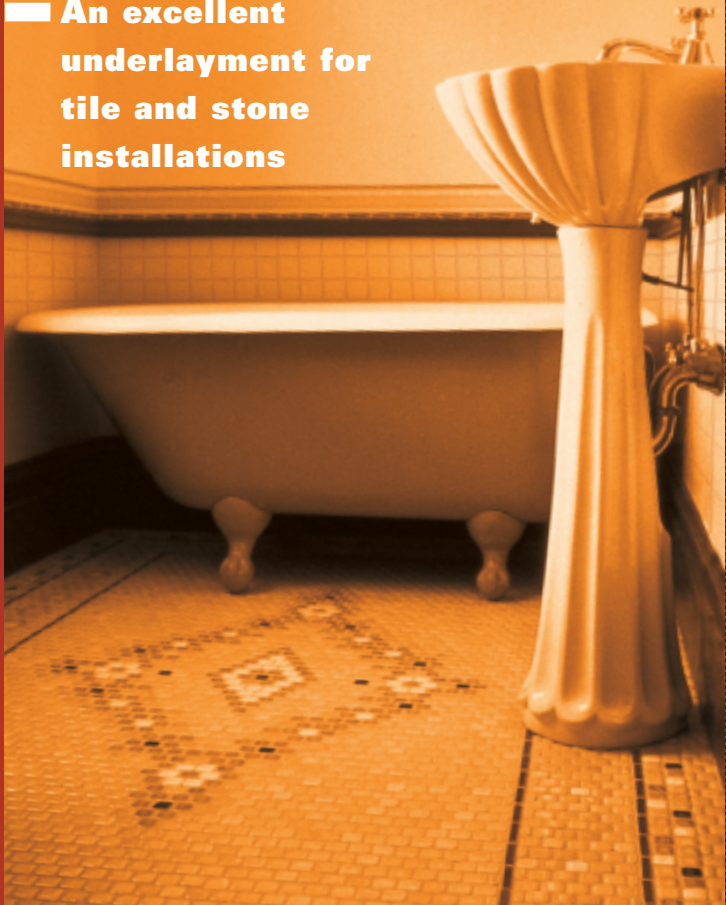
Seal Beach, CA 90740
800-272-8786
www.custombuildingproducts.com
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Nationwide manufacturing facilities.
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CEMENT BACKERBOARD

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
No failure in 35 years



outside

SURFACE PREPARATION

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

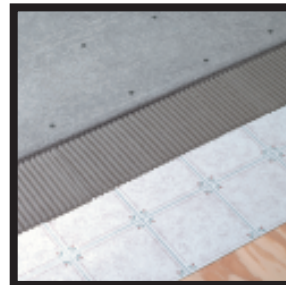


5/8" subfloor with 16" on center framing

Over Wood Subfloor

For best results, be sure plywood subfloor panels are gapped 1/8" (3 mm) at seams. If plywood is not gapped, saw cut joints all the way through the plywood sheets. Keep joints free of mortar.

- 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" (40 cm) 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.
- Remove any loose material.

Over Existing Plastic Laminated Countertops

- If thoroughly bonded and rigid, clean to remove all contaminants then roughen surface with coarse sander.

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" cement 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.

INSTALLATION FOR CERAMIC TILE OR NATURAL STONE

Wall Installation



Fasten to studs

Use 1/2" WonderBoard for all Wall Installations

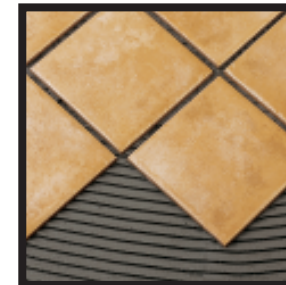
- In wet areas, nail or staple 15 lb. roofing felt or 4 mil polyethylene sheeting to studs.
- Stagger panel joints to eliminate a continuous gap line across the wall.



Tape gaps

- Fasten WonderBoard panels to studs every 6"-8" (15 cm - 20 cm) around all edges using 1 1/4" cement 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.