

TOOLS AND MATERIALS CHECKLIST

SCORING/CUTTING

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

BONDING

- Polymer-modified thin-set mortar such as FlexBond® Fortified Thin-Set Mortar (ANSI A118.4 and A118.11 compliant)

FASTENING

Floor and Wall Installations

- 1-1/2" galvanized roofing nails, or SuperiorBilt® Concrete Backerboard Screws

Resilient Floor Installations

- 18 gauge, corrosion-resistant, polymer-coated, 3/4" or longer, 1/4" crown or wider staple, chisel point staples can also be used

Countertop Installations

- 3/4" corrosion-resistant roofing nails

For Best Quality Use SuperiorBilt Tools.

SUPERIORBILT.



Product Specifications

Applications

- Interior applications only.
- All framing should comply with local building code requirements and be designed to provide support with a maximum allowable deflection of 1/360 of the span under all intended loads. When setting stone larger than 12" x 12" (30 cm x 30 cm) all wood subfloors must be 3/4" (19 mm) thick.
- Framing members should be a minimum of 2" x 10" (5 cm x 25 cm) joists spaced a maximum of 16" (40 cm) o.c.
- If floor is framed using I-joists, they must be spaced no more than 19.2" (49 cm) on center.

Waterproof Membrane

When excessive moisture is present, RhinoBoard may be used in conjunction with a waterproof membrane. Apply RedGuard™ Waterproofing & Anti-Fracture Membrane to the entire surface of the RhinoBoard (after RhinoBoard installation), following membrane instructions.

Warranty

RhinoBoard is part of the Custom Building Products' Lifetime Backerboard Systems Warranty. Call Technical Services at 800-282-8786.

Limitations

Like all fiber cement backerboards, RhinoBoard should be used for interiors only and not used as a structural, load-bearing member. RhinoBoard is not recommended for saunas, steamrooms or other areas that receive large amounts of moisture. WonderBoard® should be used as a superior backerboard for these conditions. If the area will not be kept dry or if areas under flooring must be protected, use RedGuard™ Waterproofing & Anti-Fracture Membrane.

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

	ASTM	SPEC	RHINOBOARD
Weight			1.6 lbs per ft ² (.73 kg/m ²)
Compressive Strength	D 2394	≤ .05" @ 1250 psi	.006" @ 1250 psi
Flexural Strength Wet/Dry	C 947	≥ 750 psi	1700 psi
Fastener Pull Thru	D 1037	≥ 90 lbs	160 lbs (73 kg)
Moisture Movement	D 1037	≤ .07%	.06%



Seal Beach, CA 90740
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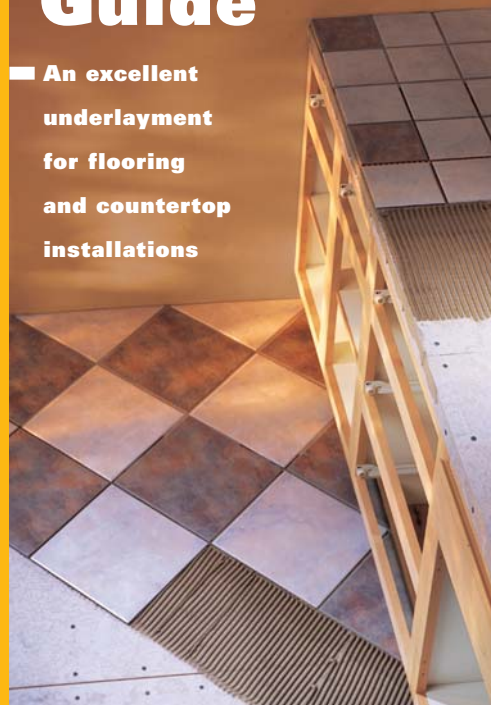
RHINO

B O A R D

Fiber Cement Backerboard

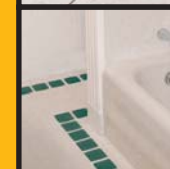
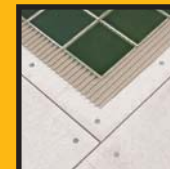
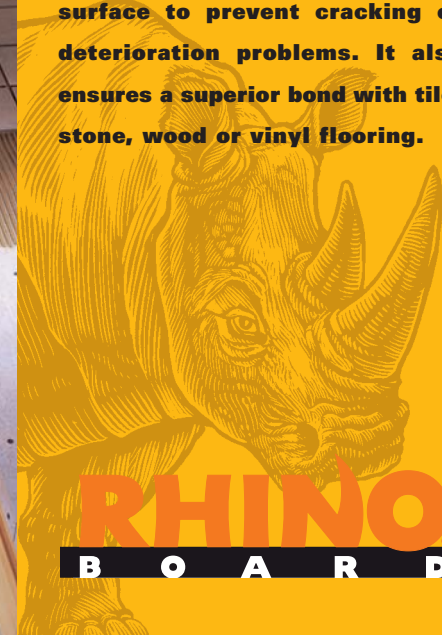
Installation Guide

- An excellent underlayment for flooring and countertop installations



PREPARE YOUR SURFACE PROPERLY FOR A BEAUTIFUL LONG-LASTING NEW FLOOR OR COUNTERTOP

Installing RhinoBoard builds a strong, level, structurally-sound surface to prevent cracking or deterioration problems. It also ensures a superior bond with tile, stone, wood or vinyl flooring.



LIFETIME WARRANTY



Versatile
Use under tile, stone, wood, vinyl and other resilient flooring.

Suitable for Wet Areas
Great for bathroom floors.

Simple Installation
Cuts, scores and snaps easily and cleanly.

Easy to Cutout and Nail
Less mess after cutting.

Lightweight
Only 25 lbs. (10.5 kg)
Easy to handle and carry.

Lifetime Warranty
Backed by 35 years of backerboard manufacturing experience.

Cutting Panels



Score then snap RhinoBoard



Drill small holes

Scoring & Cutting

- With scoring tool or utility knife and straightedge, score on one side.
- Snap board at score line.

Please wear approved safety glasses and dust mask.

Making Cutouts

- Score around perimeter.
- Knock out piece with hammer and smooth with file or coarse sandpaper.
- After scoring and cutting the panels and making any cutouts, you're ready to begin RhinoBoard installation.

TIP:

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

Floor Installations



Adhere panels with mortar



Stagger surface and panel joints

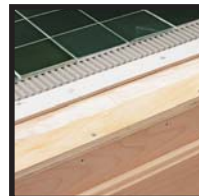
Wood Subfloors

- 5/8" (16 mm) exterior grade plywood or OSB should be securely glued and fastened to floor joists. Joists should be 2" x 10" (5 cm x 25 cm) spaced a maximum of 16" (40 cm) o.c. A 3/4" (19 mm) subfloor with I-joists spaced a maximum of 19.2" (49 cm) o.c. are also acceptable. Sheets of wood subfloor must be gapped 1/8" (3 mm).

Ensure the subfloor is structurally sound and clear of debris.

- Using a 1/4" x 1/4" (6 mm x 6 mm) square-notch trowel, apply a leveling bed of thin-set mortar to the subfloor.
- Place the RhinoBoard panels leaving a 1/8" – 3/16" (3 mm – 5 mm) space between panels at all joints and corners.

Countertop Installations



Countertop installation



Installation over existing laminate

New Countertops

- 3/4" (19 mm) exterior grade plywood should be securely fastened to the cabinet. Maximum variation in plywood surface should be no more than 1/8" in 10' (3 mm in 3 m) from the required plane. Cut in a dot dash fashion with a circular saw.

- Apply membrane (15 lb. roofing felt or 4 mil polyethylene) over rough top.

- Secure RhinoBoard panels with 3/4" (19 mm) galvanized roofing nails.

- Place fasteners every 6" – 8" (15 cm – 20 cm) throughout panel field and around perimeter.

- Fill all joints between panels with thin-set mortar. Taping of joints is not required.

- Counter and wall tile joints must be caulked with a flexible sealant.

Finishing



Set tile

Laying Tile or Stone for Floors and Countertops

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

- Clear all debris from RhinoBoard and vacuum to eliminate excess dust or dirt. Lightly dampen panel with sponge or cloth.

- Use a thin-set mortar and spread with 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.

Vinyl Floor Installations



Vinyl flooring installation



Remove label

On Wood Subfloor

RhinoBoard is one of very few backerboards approved by Armstrong® as a suitable substrate for resilient flooring.

- Subfloor under linoleum or vinyl flooring must comply with requirements of wood subfloor and should be well bonded. The wood subfloor must be dry (not to exceed 15% moisture).

- With the label side (smooth side) facing up, and a 1/8" – 3/16" (3 mm – 5 mm) space between panels at all joints and corners, stagger joints so they don't line up with underlying surface joints.

- Remove or scrape off label.

- Using 1/4" (6 mm) crown or wider x 3/4" (19 mm) or longer, galvanized chisel point staples, or 1" (25 mm) galvanized, ring-shanked underlayment nails, fasten RhinoBoard every 6" – 8" (15 cm – 20 cm) throughout panel field and perimeter and within 1/2" – 2" (1.3 cm – 5 cm) of edge. Taping of joints is not required.



Fasten panels to wood floor

- All fasteners should be flush with or slightly below, no more than 1/16" (1.6 mm), the RhinoBoard surface.

- Fasten one panel at a time. Do not tack corners. Taping of joints is not required. Install cut edges against the wall. Only factory edges should be joined.

- Sand uneven panel joints until they are smooth and even. Sanding must be done in a well-ventilated area with proper protection (see warning). If you cannot feel the seam, sanding is not required. Avoid over-sanding that will cause depressions in the floor.

TIP:

Avoid resin, rosin, and cement-coated fasteners that can discolor vinyl flooring.



Sand smooth

- Apply SpeedFinish™ Patching & Finishing Compound to the joints between panels to create a smooth, flat surface. This may require more than one coat. Fill all joints, depressions, screw/nail heads, and damaged spots.

- Scrape or sand patched areas so they are smooth and even. Allow compound to dry; sand again until smooth.

Please wear approved safety glasses and dust mask.



Install vinyl flooring

Laying Vinyl Flooring

You can now install the floorcovering, following the thin-set mortar and floorcovering instructions.

- Clear all debris from RhinoBoard and vacuum to eliminate excess dust or dirt. Lightly dampen panel with sponge or cloth.

TIP:

Allow a minimum of 24 hours after floorcovering installation before placing heavy appliances or furniture on floor.