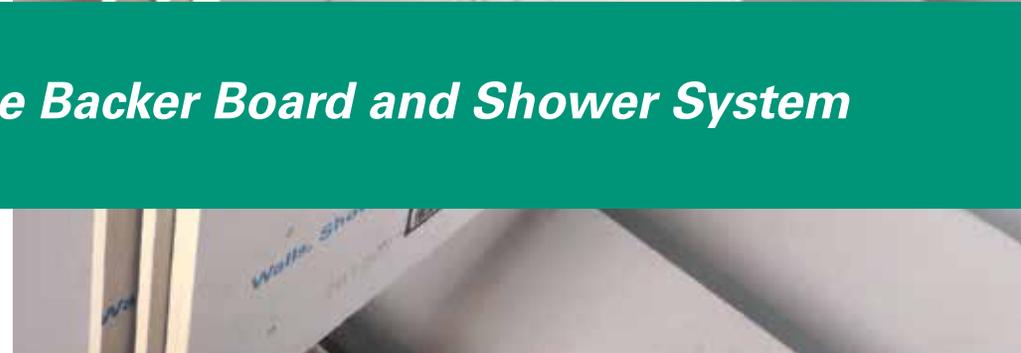




How To Install GoBoard: A Step-By-Step Guide

Durable, Ultra-lightweight, Waterproof Tile Backer Board and Shower System





Introducing GoBoard

Every tiling project requires a durable surface under the tile, called a tile backer board. GoBoard from Johns Manville is a line of products tile backer board that provide the following features for your tile project:

-  **FAST INSTALLATION***: Engineered for speed. Complete tile projects in half the time or less.
-  **ULTRA-LIGHTWEIGHT**: Up to 80% lighter than cement boards, yet engineered for durability.
-  **EASY TO CUT & HANDLE**: Simply cut with a utility knife, and attach using GoBoard Fasteners and optional GoBoard Washers.
-  **WATERPROOF BUILT-IN****: Save time and money because you only need to seal the board joints and the fastener locations for a waterproof tile assembly.

APPLICATIONS & THICKNESSES:

- 1/4" GoBoard Tile Backer board for floors and countertops
- 1/2" and 5/8" GoBoard Tile Backer board for walls, showers, ceilings and floors
- 1", 1 1/2" and 2" GoBoard Tile Backer board for walls, benches, shelves, tub surrounds, vanities and countertops
- 4' x 4' presloped GoBoard Wedge for shower pans
- 3 1/2" x 2 1/2" x 48" GoBoard Curb for shower pans

USE FOR ANY TILING PROJECT:

- Bathroom
- Shower Areas
- Kitchen
- Laundry
- Basement
- Commercial Buildings

* A typical shower project, waterproof installation, following manufacturer's installation instructions.

** Only board joints and fastener locations require GoBoard Pro Sealant or approved alternative waterproof sealant.



Getting Started: Project Checklists

Step-by-step instructions are on the following pages, but first here are checklists for everything you'll need to complete your project, including GoBoard products and your selected tile:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Tile | <input type="checkbox"/> GoBoard Wedges |
| <input type="checkbox"/> 1/4" GoBoard Tile Backer | <input type="checkbox"/> GoBoard Curbs |
| <input type="checkbox"/> 1/2" GoBoard Tile Backer | <input type="checkbox"/> GoBoard Point Drain Kit |
| <input type="checkbox"/> 5/8" GoBoard Tile Backer | <input type="checkbox"/> GoBoard Seam Fabric |
| <input type="checkbox"/> 1" GoBoard Tile Backer | |
| <input type="checkbox"/> 1", 1 1/2", or 2" GoBoard Tile Backer | |

TO ATTACH (PICK ONE)*:

- 1 1/4" GoBoard Fasteners
- GoBoard Washers (optional)
- 1 1/4" Backer Board Screws
- 1 1/2" Galvanized Roofing Nails

TO BOND (PICK ONE)*:

- Dry set mortar (ANSI A118.1)
- Polymer modified thin-set mortar (ANSI A118.4)

TO SEAL (PICK ONE)*:

- GoBoard Pro Sealant
- GoBoard Seam Fabric (optional)
- Approved alternative sealant**
- Fiberglass mesh tape (mortar method)

TO WATERPROOF (PICK ONE)*:

- GoBoard Pro Sealant
- Liquid waterproofing membrane

REQUIRED TOOLS (PICTURED TO THE RIGHT):

- | | |
|--|---|
| <input type="checkbox"/> Utility Knife | <input type="checkbox"/> 1/4" square notched trowel |
| <input type="checkbox"/> Pencil or pen (for marking) | <input type="checkbox"/> 3/16" V notched trowel |
| <input type="checkbox"/> Straight edge (ruler or t-square) | <input type="checkbox"/> 1" - 3" paint brush (for liquid membrane) |
| <input type="checkbox"/> Measuring tape | <input type="checkbox"/> Appropriate roofing nail or backer board screw fastening device (nail gun on a lower pressure setting or drill). |
| <input type="checkbox"/> Putty knife | |

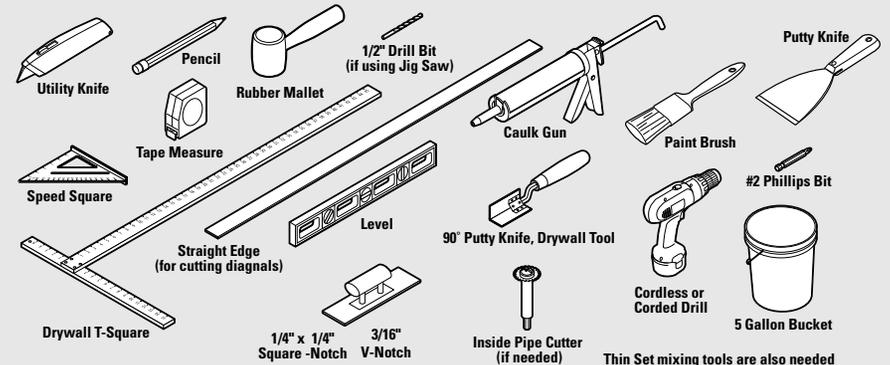
*For additional approved materials, refer to manufacturer installation instructions and technical data sheet. (www.JM.com/GoBoard)
 ** For manufacturer approved alternative sealants/caulk, refer to Approved Alternative Sealant List (www.JM.com/GoBoard).

REQUIRED TOOLS (CONT.):

- | | |
|--|--|
| <input type="checkbox"/> #2 Phillips bit | <input type="checkbox"/> Level |
| <input type="checkbox"/> Inside Pipe Cutter | <input type="checkbox"/> Caulk gun |
| <input type="checkbox"/> 5" hole saw or jig saw | <input type="checkbox"/> 5 gallon bucket |
| <input type="checkbox"/> 1/2" drill bit (if using jig saw) | <input type="checkbox"/> Thin-set mixing tools |
| <input type="checkbox"/> 90° putty knife | |

PRIOR TO INSTALLATION MAKE SURE YOUR SPACE IS FULLY PREPPED:

- Remove fixtures in bathroom and shower like faucets and towel racks.
- Remove any nearby electrical outlets, trim, old tile and setting materials down to wall studs and subfloor.
- Address signs of mold on the studs and subfloor and make repairs as needed.
- Ensure subfloor is in good condition with no squeaks or loose boards.
- Replace any subfloor sections and install additional fasteners as needed.
- Shim or replace any bowed studs to make sure you have a flat wall.
- Add additional studs if they are spaced more than 16" on center.
- Follow shower pan instructions for drain location and wall preparation for shower pan.
- Reroute plumbing and electrical if you're changing the layout of the bathroom.
- Mask doorway and studs.
- Turn off the power to the room being tiled.



NOTE: Please ask a professional if you have any questions about how to safely prep your space!

NOTE: Thin-set mixing tools are also required. For shower pan projects PVC primer and solvent cement are required.

How to Measure & Cut GoBoard

Measure for the first board placement, and with your pen or pencil mark where you need to make your cuts. For big tiling areas, you will have pieces of GoBoard that you won't need to cut.

FOR EVERY PIECE OF GOBOARD YOU NEED TO CUT, SIMPLY:

- 1 Lay it on any flat and durable surface, and draw your cut line using a straight edge.
- 2 To score, cut through outer facing with a utility knife along your measured line. You may also cut along the straight edge to ensure a straight cut.
- 3 To snap, bend the board at the edge of the surface, and quickly apply downward pressure at the scored line, snapping GoBoard along the cut line.

ALTERNATE METHOD:

- 1 After scoring with your utility knife, stand the board on edge.
- 2 Place your knee against the back of the board, directly behind the scored line.
- 3 Bend the board backward against your knee.

FOR CIRCULAR CUTS:

Use this method for GoBoard going around pipe holes, drain cutouts or around the sink.

- 1 Use a ruler to measure the diameter of the circle, then find the centerpoint (diameter ÷ 2).
- 2 Draw a dot to mark the centerpoint of the circle.
- 3 Draw the cut lines for the circle using a compass or by using a ruler to measure and mark dots along the radius (diameter ÷ 2).
- 4 With a utility knife cut completely through GoBoard.
- 5 Pop the cut piece out with your fist, hammer or other tool.



GoBoard For Floors & Countertops

Before you attach GoBoard, you will need to apply thin-set mortar directly on a clean, dry and flat subfloor or countertop plywood base.

GOBOARD ON WOOD FLOORS AND COUNTERTOPS:

- 1 Mix mortar until it's the consistency of peanut butter.
- 2 Use a notched trowel to apply and comb the mortar.
- 3 Only apply enough mortar at a time for one piece of GoBoard so it doesn't set up (harden) before you get the board down.
- 4 Press your piece of cut GoBoard into the mortar leaving an 1/8" gap between boards.
- 5 Fasten using either GoBoard Fasteners, backer board screws or roofing nails.
- 6 Apply mortar to all joints, edges and fastener locations, wiping flush against the board.
- 7 Embed fiber glass mesh tape along the joints and edges, then allow to completely dry.

GOBOARD ON CONCRETE FLOORS:

- 1 Ensure that the concrete floor is clean and fully cured. Prefill surface imperfections with mortar.*
- 2 Follow the wood floor installation instructions. However, skip the fastening step and ensure that GoBoard is fully embedded in the mortar.

It is recommended, but not required, to use GoBoard Pro Sealant or liquid waterproofing for floor and countertop applications.

ADDITIONAL, OPTIONAL WATERPROOFING WHEN REQUIRED:

- 1 Liberally apply GoBoard Pro Sealant, approved alternative sealant**, or two coats of liquid waterproofing membrane in and across all joints and fastener locations.
- 2 Extend the sealant or liquid membrane at least 1" beyond the mortar.
- 3 Allow to completely dry.



NOTE: Be sure to follow the manufacturer's instructions when mixing and applying the mortar.

NOTE: Stagger all board joints to make sure they do not line up with the subfloor joints.

NOTE: Skip the fastening step if you are installing on concrete floors.

*Refer to the Bonding section of the approved material section of the manufacturer installation instructions and technical data sheet.

** Refer to the Approved Alternative Sealant List - (www.JM.com/GoBoard)

GoBoard For Walls and Ceilings

Use GoBoard Pro Sealant if waterproofing is required.

GOBOARD ON WALLS AND CEILINGS:

- 1 After you place each board to see that it fits snugly, mark the stud location on GoBoard so you know where to attach it.
- 2 Fasten GoBoard to the studs using GoBoard Fasteners* ensuring the fasteners are flush with the surface of the board with a maximum spacing of 8" and within 1/2" - 1" of the edge. Leave an 1/8" gap between each board.
- 3 Apply mortar to all joints, edges and fastener locations, wiping flush against the board.
- 4 Embed fiber glass mesh tape along the joints and edges, then allow to completely dry.

ALTERNATE METHOD 1:

- 1 Follow steps 1 and 2 above.
- 2 Liberally apply a continuous bead of GoBoard Pro Sealant (or approved alternative sealant) into the 1/8" gaps between the boards. Spread excess sealant onto the GoBoard surface extending out at least 1" beyond the joint on either side.
- 3 Cover each fastener location completely with GoBoard Pro Sealant at least 2 1/2" in diameter.

ALTERNATE METHOD 2:

- 1 Also follow the previous steps 1 and 2 above.
- 2 Liberally apply a continuous bead of GoBoard Pro Sealant (or approved alternative sealant) to the bottom edge of the GoBoard so that when it is butted at the base of the next GoBoard panel the sealant squeezes out.
- 3 Spread excess sealant onto the GoBoard surface extending out at least 1" beyond the joint on either side.
- 4 Cover each fastener location completely with GoBoard Pro Sealant at least 2 1/2" in diameter.
- 5 Continue attaching GoBoard pieces until the entire space is covered.

*Refer to the manufacturer's installation instructions and technical data sheet for fastening schedules for GoBoard Fasteners/Washers combo and approved alternative fasteners. Or refer to the GoBoard Fasteners and GoBoard Washers technical data sheets. (www.JM.com/GoBoard)



NOTE: Make sure your fasteners are flush with the surface of the GoBoard.

NOTE: Spacing for GoBoard Fasteners when used with GoBoard Washers is 12"

GoBoard For Bathtubs and Shower Walls

GoBoard is inherently waterproof, but any edge, joint, change of plane, fastener location and slightest pinhole must be sealed to protect the whole system against water damage and mold.

GOBOARD ON WALLS, CEILING AND TUB SURROUNDS:

- 1 After you place each board to see that it fits snugly, mark the stud location on GoBoard so you know where to attach it.
- 2 Fasten GoBoard to the studs using GoBoard Fasteners* ensuring the fasteners are flush with the surface of the board with a maximum spacing of 8" and within 1/2" - 1" of the edge. Leave an 1/8" gap between each board.
- 3 Liberally apply a continuous bead of GoBoard Pro Sealant (or approved alternative sealant) into the 1/8" gaps between the boards. Spread excess sealant onto the GoBoard surface extending out at least 1" beyond the joint on either side.
- 4 Cover each fastener location completely with GoBoard Pro Sealant at least 2 1/2" in diameter.
- 5 When the sealant becomes tacky after approximately 20 minutes, cover the sealed board joints and fastener locations with optional GoBoard Seam fabric to reinforce the seal especially at the change of plane between the walls and shower pan. Gently embed the fabric smoothing out all wrinkles or air pockets.

Follow walls and ceilings instructions when installing a steam shower. However, a separate vapor barrier must also be installed.

GOBOARD IN STEAM SHOWERS (PICK ONE):

- Install a manufacturer-approved vapor barrier directly to the wall studs and ceiling framing behind GoBoard (per the manufacturer's instructions).
- Install a manufacturer-approved vapor barrier or waterproof membrane over the external surface of GoBoard (per the manufacturer's instructions).

*Refer to the manufacturer's installation instructions and technical data sheet for fastening schedules for GoBoard Fasteners/Washers combo and approved alternative fasteners. Or refer to the GoBoard Fasteners and GoBoard Washers technical data sheets. (www.JM.com/GoBoard)



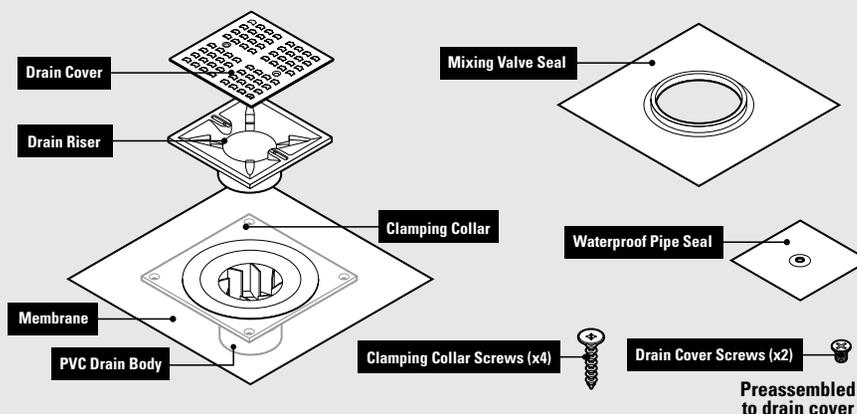
NOTE: Sealant should not saturate and pass through seam fabric.

GoBoard For Shower Pans

Once you have installed your shower or steam shower walls, continue with the steps below to install the shower pan.*

GOBOARD SHOWER PAN:

- 1 Install the drain assembly by fastening the drain base to the subfloor using GoBoard Fasteners or screws. Glue to the waste pipe.**
- 2 Install the valve seal and pipe seal using GoBoard Pro Sealant.
- 3 For a curbed shower pan, measure distance between walls then cut the GoBoard Curb to required length. Use additional curbs if necessary. For curb-less shower pan, skip to step 5.
- 4 Apply beads of GoBoard Pro Sealant to the curb location on subfloor and wall. Also apply sealant to the GoBoard Curb. Full embed GoBoard Curb, then seal all joints using GoBoard Pro Sealant.
- 5 To install GoBoard Wedges, measure distances between clamping collar of the drain and each edge of the shower pan area, accounting for 1/8" gaps.
- 6 Cut GoBoard Wedges into rectangles, each to fit the dimensions between the clamping collar and the edges of the shower pan.
- 7 With the thin edge of the GoBoard Wedge facing the drain, cut the wedges at 45° angles from the center of the GoBoard Point drain. Dry fit GoBoard Wedges to ensure required 1/8" joint gaps.
- 8 Apply thin-set mortar to the subfloor with 1/4" x 1/4" square or 3/16" V notched trowel.
- 9 Adhere the GoBoard Point Drain waterproof membrane to the GoBoard Wedge panels by applying GoBoard Pro Sealant on top of the clamping collar and underneath the membrane. Use a putty knife on top of the membrane to spread the sealant underneath, moving from the center towards the edges.
- 10 Spread excess sealant around the perimeter of the membrane, then apply sealant around the perimeter of the PVC drain flange.
- 11 After preparing to tile, using a putty knife, pack thin-set mortar underneath the drain cover assembly.
- 12 Install tile around the drain. Using a rubber mallet, gently level the drain cover assembly with the surrounding tile, if needed.



NOTE: The GoBoard Point Drain shower pan system accommodates all types of shower areas and offset drain locations, so there's no need to move the existing plumbing.

*Refer to the complete manufacturer's Point Drain Shower System Installation Instructions. (www.JM.com/GoBoard)

**Use PVC primer and solvent cement. If using ABS waste pipe (black), consult a plumber.