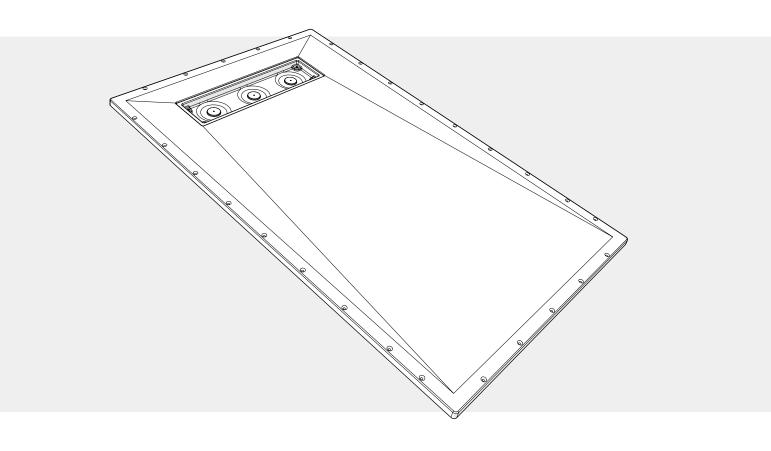


TriForm Shower Base

INSTALLATION INSTRUCTIONS



Please read all instructions before installation and leave this document with the end user for future reference as it contains important warranty information.

Introduction & Tips

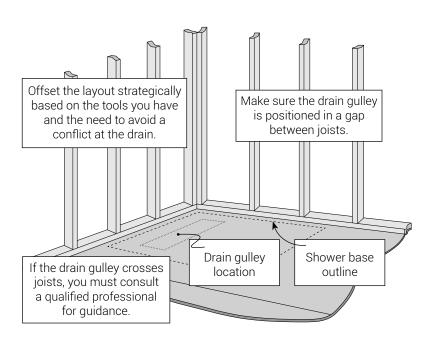
With a TriForm structural shower base, you'll build a beautiful, spa-style shower that's also safe and accommodating for everyone.

Install TriForm pre-pitched linear drain shower bases directly on joists, on wood subfloor, on concrete, or in concrete. When installed on joists, your shower's pitch begins at the same elevation as the surrounding floor, making the shower drain the lowest place in the room and the natural collection point for draining water. Your shower won't need a curb or threshold of any kind, though you can choose to add a curb if you prefer that design appearance. Compared to constructing a mud bed shower, our durable bases eliminate the need for mud mixing, reduce installation time by days, provide consistent, accurate shower slopes that align with the drain every time, and avoid the common causes of mud bed failures. AKW Resource Center's prefabricated bases are lighter and easier to carry, too.

If the drain gulley in your shower base installation must cross joists, it is absolutely necessary to consult a qualified professional to determine what joist modifications and reinforcements are required.

Layout Tips

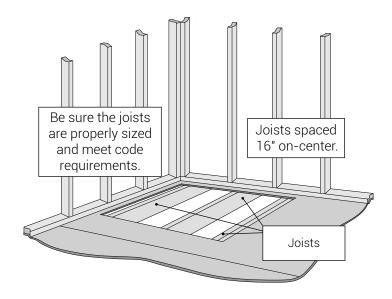
Begin by outlining the shower base on the subfloor. As you position the base, keep a few layout tips in mind: you need the drain gulley to hang between joists (joist locations are usually easy to spot based on subfloor nailing patterns), when possible you want to avoid obstructions like wiring and heat ducts, and it's not a problem to pull the base away from the walls to make cutting easier. If any joist modifications must be made, do consult an engineer or other qualified professional before making any cuts.



Installation

Remove Subfloor

Use a circular saw, reciprocating saw, or a flush cutting saw to cut the subfloor. For your safety and to prevent accidental damage, check for electric wiring, plumbing lines, and ductwork before you make any cuts. If you can't view the joist cavity spaces from underneath, consider cutting out small areas in the middle of the shower base layout first, so that you can look and feel for obstructions. Set the depth of the circular saw blade to avoid cutting into the joists. Complete the corner cuts using a chisel or multi-purpose tool.



Choose a Base, Drain Assembly, and Waterproofing Kit

To install an TriForm shower system you'll want to select a shower base, a drain assembly, and a waterproofing kit. AKW Resource Center offers two linear drain options and two waterproofing kits to meet most needs, and all waterproofing materials are also available separately in case you need more material to complete a project.

Our Premium Waterproofing Kit (shown below) includes many convenience items in addition to AKW Resource Center's proprietary TANK/10® liquid waterproofing compound and reinforcement tape supplies - we highly recommended this kit for first time installers as it puts all odds and ends at your fingertips, and avoids an extra trip to the store.

For a slimmed down option, our Pro Kit has enough tape and waterproofing compound to cover a shower base only (developed to serve installers who prefer to use other waterproofing materials on shower walls and the surrounding floor).

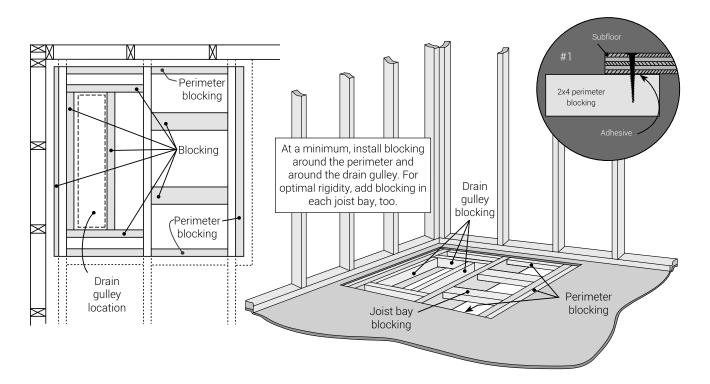
Requirements of every project are different, depending on the complexity of the shower, the presence of a built-in bench or shelving niches, the number of joints between tile backer panels, and the amount of area to cover. Please see our Curbless Shower Systems catalog for details on shower base sizes, drain options, and the complete line of waterproofing supplies.

To view the catalog online

Order. 1-715-743-2771 | info@akwresourcecenter.com

go to www.akwresourcecenter.com.

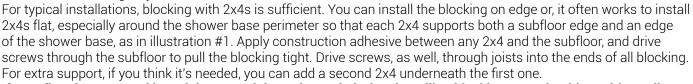
Add Blocking



Using a spirit level, make sure all joists are level and even with each other. If there are high #2 Subfloor spots, remove material with a belt sander, rasp, or block plane. Low spots require shims, or better yet, alongside low joists fasten 2x4 sister blocking at the appropriate height.

It is very important that joists and blocking are level and even with each other. Next, 2x4 add blocking to support all edges of the shower base and the surrounding subfloor edges. You want a full 1½" of support under every subfloor edge and shower base edge. You'll have to determine the best way to arrange and secure blocking for your project, though the illustrations above will provide general guidance.

You also want substantial support around the drain gulley. The area around the drain gulley is the thinnest part of the shower base, and needs to be supported. Locate supports ½" to 1" outside the gulley.

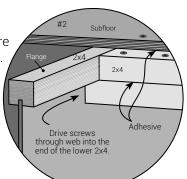


If your floor is supported by 'I' joists, special care is needed when installing blocking. You should not drive nails or screws into the sides of the flanges of an 'I' joist (illustration #2).

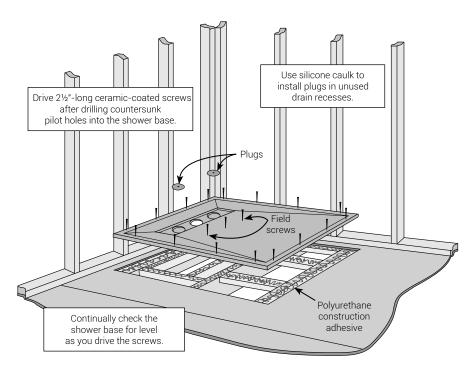
A good blocking method is to position a flat 2x4 to span the gap between the top flanges of two parallel 'I' joists. Spread construction adhesive on the top surface of the 2x4 (the area that will support the subfloor), and drive screws through the subfloor into the 2x4 to pull the assembly tight. Next, install a second 2x4 underneath the first one. Put construction adhesive on its top surface, then fasten it—drive screws through both 2x4s, and drive screws through each 'I' joist's web into the end of the lower 2x4 only. After all blocking is installed, test fit the shower base to ensure that the base is fully supported and even on all 4 sides.

Use a spirit level in all directions to ensure that this "dry" installation is spot on.

Many installers stand the shower base on edge across the joists to check for evenness. Adding more blocking between joists usually eliminates any flex. This is the best time to ensure the shower base is fully supported, does not flex or rock, and has no twist. Keep in mind that at the center of the base, you'll want to drive several screws to hold it down to the structure underneath (after drilling countersunk pilot holes). Once it's glued and screwed to a level, even, and substantial support structure, the shower base becomes very rigid.

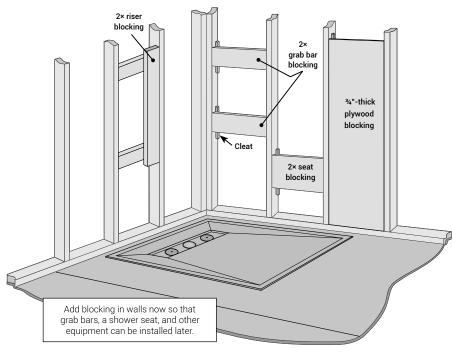


Setting the Base



At this time you can install the shower base. With your caulking gun loaded, apply thick beads of polyurethane construction adhesive to the top edge of all joists and blocking. Be generous with the adhesive—it will fill gaps and hold everything tight. Use a minimum of three 10 oz. tubes of adhesive-AKW Resource Center supplies six tubes in the Premium and Pro kits. Next, set the shower base into the adhesive and gently press it downward. Bore 1/8" pilot holes around the perimeter about 8" apart just so you're not surprised, you'll drill through soft metal tubing inside the base. In addition, drill two or three pilot holes in the field (align with joists or blocking underneath). Countersink all pilot holes, then drive the screws so they're snug-overtightening screws can squeeze out too much adhesive. Drive the field screws last.

As you drive the screws, routinely check the base for level all around. The shower base must be level in all directions. After driving the screws, reassemble the drain connector permanently. Remember, it's clear gasket under black gasket. Apply a bead of silicone caulk to the underside of the drain connector top's flange and thread the top into the tail. Finish turning the top so it's good and tight using a speed square for leverage. Bond the remaining two drain plugs into the unused gulley recesses with silicone caulk (apply thick coatings to the bottom of each plug). For good measure, put a small bead of silicone around the top perimeter of each plug after they're set into the recesses—while wearing nitrile gloves, wet a finger with denatured alcohol and smooth out the beads. Finally, reinstall the stainless steel strainer on top of the drain connector.



Future Proof

This is a great opportunity to install wall blocking for accessories, like grab bars, a shower seat, or a riser rod for an adjustable shower head. You can use 2× stock fastened to studs with screws, or, for more strength and greater load capacity, incorporate cleats—toenailing is insufficient. One very effective blocking method is to fill stud bays with ¾"-thick plywood (mounted to cleats) to provide a continuous fastening platform.

For a shower seat, definitely use 2× stock or two layers of 3/4"-thick plywood. Make sure the blocking is well secured to the studs so that it can support the load rating of a seat. You may want to block all the way to the baseplate of the wall framing to ensure that you have a strong foundation for a seat - the preferred method for mounting a seat without legs.

Solid Floor Installation









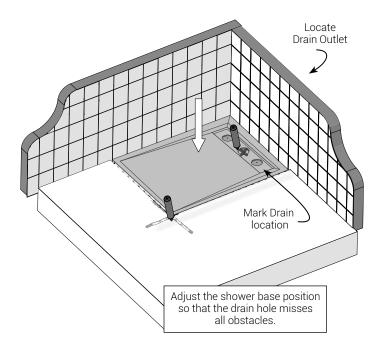
Layout

Position the base so the center of the drain hole is nearest the drain outlet.

Note: the Drain hole is offset and the base can be rotated 180 degrees.

Check for any obstructions before cutting into the floor.

Begin by outlining the shower base and drain location on the floor.



Remove the solid floor

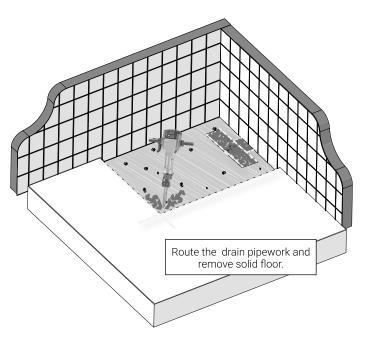
For your safety and to prevent damage to utilities, check for wiring, plumbing, and duct work before you make any cuts into the solid floor.

Match the cutting depth of your saw to the thickness of the base.

Use a flush cut saw or circular saw with a suitable blade to make the major cuts for the shower base. Remove the building materials to the shower base area.

Always wear protective equipment.

Remove the drain waste area suitable for the outlet pipework.



Solid Floor Installation

Install Drain Outlet Pipework

Route drain outlet and remove any building materials such as concrete to allow drain pipe to reach an outside drain.

Use a high quality pipe system for all buried connections and test for leaks

Ensure the bottom of the waste is supported and secure the waste drain. Cover the drain to prevent debris from entering. For Drain installation see page 8.

Add Subscreed

Sand and cement may be used to create a subscreed at least 22 mm lower than the finished floor height. Add the screeded floor, covering all of the base area and remove any loose material. Level the subscreed. The base must be fully supported on all four edges and evenly over the honeycomb underside. The drain must be fully supported within 5-6 inches to the centre of the waste outlet position.

Do not "Dot & Dab" as the supporting surface must be level.

Allow this mix to set. Flexible sand and cement mix may then be applied liberally to the subscreed to hold the former firmly in position at installation. Do not use foam or plaster as a load bearing support as this will break down under repeated use.

Fix Down & Connect Drain

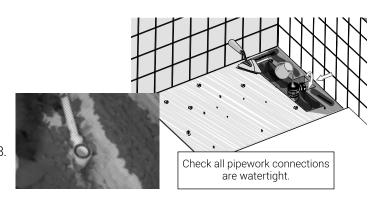
The edges of the base must finish level on all 4 sides with the top of the finished surface. If necessary the former can be screwed down but to do not overtighten as this will over-flex the base. Ensure the fall is correct and the base is level before allowing to dry.

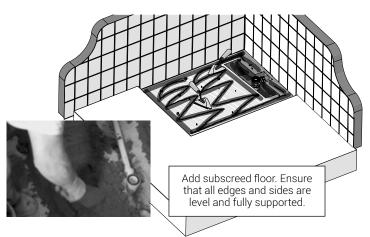
Connect drain connector to the drain outlet and secure to the former.

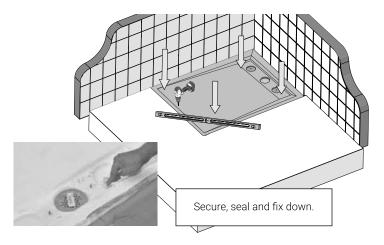
See next page to install the drain.

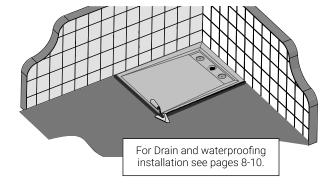
Future-Proof

The drain hole should be covered to protect it from any dirt or debris. Lightly abrade top surface and then wipe clean. This will allow any tanking system to achieve the best bond to the base. Allow for the curing time and ensure the screed floor is set hard before installing the tanking kit. Remove any sharp objects or abrasive surfaces. The showering area must be level and smooth before applying any tanking kit.









Solid Floor Installation

Place a drain plug (three are supplied with the base) into the recess where you want to install the drain connector, and drill a 1/8" pilot hole through the center of the plug and gulley floor (at right). Make careful measurements from nearby walls to that pilot hole and record them—you'll need these to pinpoint your drain line installation. Next, remove the plug and use a 3¼" dia. holesaw, centered on the pilot hole, to bore through the gulley floor to create a large hole to accommodate the connector.

Unless you have access from below the shower base, now is the time to complete the 2"-dia. drain line. Be sure your tailpiece is centered precisely on the pilot hole location you measured. Allow for a little up-and-down movement in the drain line so that when you make the drain connection, the mating parts pull together tightly.

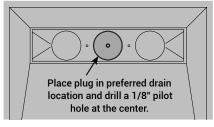
The elevation of the shower base determines the height at which you cutoff the tailpiece. Typically, subfloor is ¾" thick, and tile backer board is ¼" thick or ½" thick (check your local code requirements). The combination of ¾"-thick subfloor and ¼"-thick tile backer board is ideal for a shower base placed directly on joists. If your local code requires ½"-thick backer board, then use ¼"-thick plywood to raise the shower base to the proper elevation. Cut the drain line tailpiece 3" below the shower base's support structure and weld the drain connector tail to it (local code may require that a licensed plumber complete this connection).

Now set the shower base in position and test the drain connection. Slip the drain connector gaskets onto the top flange of the tail, below the shower base (see Drain Connector Details below).

The clear polyethylene gasket goes underneath the black rubber gasket. The clear gasket is slick, allowing the drain connector to thread together without distorting or stretching the black rubber gasket. The black rubber gasket provides the critical seal below the shower base.

It is absolutely necessary to use both gaskets.

Next, remove the strainer from the drain connector top. Be sure to put the strainer and the two screws somewhere safe and secure—you'll need to reinstall them later. The drain connector tail and top should align and thread together easily by hand. If you have to use any force they are probably cross-threaded, which can result in a leaky connection. This must be corrected. Make adjustments now, before the shower base is adhered to the joists and the drain line becomes inaccessible. When you're satisfied that the drain connector assembly is fitted properly and the pieces are seating well against the gulley floor, take the drain connector apart and remove the shower base from the joists so you can move on to the next step.

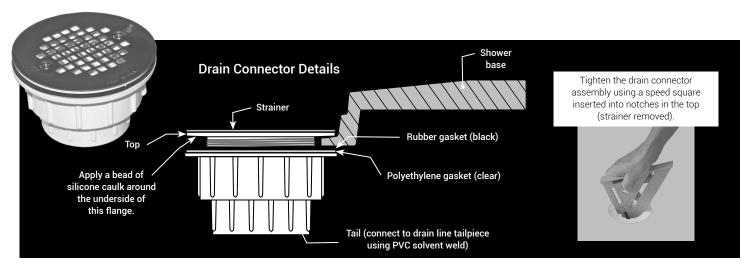












Waterproofing Prep

Fiber cement board underlayment is easy to handle and cut, and you can quickly sand edges that butt against the shower base. Install panels (½" thick on the walls, and ¼" or ½" thick on the floor, depending on your code requirements) according to the manufacturer's instructions. Be sure to use the recommended screws. Use thinset mortar, applied with a properly-toothed trowel, between the subfloor and the cement board panels you lay on it. Completing the substrate preparation properly is really important—a good foundation will improve the durability of your tilework or stonework.

After installing the backer board, prepare the shower base for waterproofing. First, take a minute or two to scuff the surface of the shower base with an orbital sander equipped with sandpaper of 80 to 120 grit. Scuffing the shower base cleans it (removes oil from handling, footprints, dirt, etc.) and improves adhesion for the waterproofing compound. Remember, Tank/10 waterproofing provides anti-fracture properties and bonds well

with thinset, in addition to its waterproofing prowess, so it pays to get the

building blocks done right here.

Use the same sander to blend the edges of the tile backer board to the shower base. Sand the tile backer edges at a shallow angle until they're flush with the shower base—later, when you install tile or stone with thinset mortar, you will be able to blend these transitions perfectly.

Once you've finished with the sander, vacuum all dust and debris from the site. Make sure you clean all cracks and crevices to remove every bit of dust and backer board waste—you don't want debris mixing with the waterproofing and preventing the joint tape from laying flat.

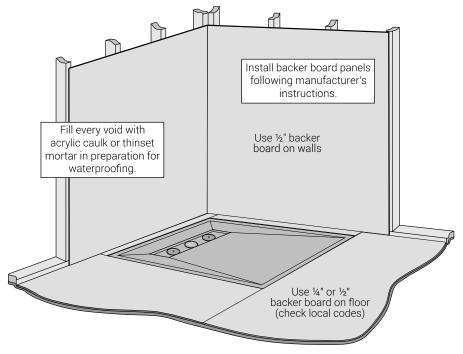
Follow-up with a sponge and a bucket of water to clean all surfaces thoroughly, then let them dry completely.

Now fill all voids (1/8" and wider) to provide solid backing for the reinforcement tape and waterproofing compound. This includes covering all screw heads, unused pilot holes, plus gaps around the shower base and between backer board panels. If you intend to make a wet room, fill gaps in the entire floor and up the walls 2" to 3", in addition to the shower area. Acrylic caulk does a good job as a void filler, and it skins over quickly. Do not use any caulk with silicone as a void filler.

Thinset mortar also makes for a good, quick-drying void filler.











Cover All Joints

Cut tape to length with a utility knife or scissors for each joint before tackling the waterproofing—it saves time to batch the cutting and it's better to do it with clean hands. For projects with a lot of joints, consider using a felt tip marker to number Joint tape each reinforcement piece and its corresponding location. Allow for 2" overlaps where tape pieces meet, except at outside corners of the shower base, where you want tape pieces to completely cross. On the walls, plan to embed joints to the height of the shower head or higher.

To avoid reaching over wet waterproofing, it's best to begin bedding tape at the back of the shower and work your way toward the front. All surfaces must be clean and dry cross at outside corner s before embedding any tape. Start by embedding an internal corner

reinforcement at the back wall-to-floor joint(s). Embedding tape



2) set the tape into position, 3) press the tape into the compound with the brush (or lightly with a putty knife) to ensure uniform contact and to squeeze out excess, and 4) brush waterproofing compound over the tape. Some installers like to "butter" the back of the tape before setting it into position.

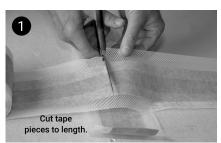
Supply gaske

Internal corner

Allow tape to fully

cross at outside corners

Once the wall-to-floor corners at the back of the shower are covered, embed tape over all shower wall joints, then cover the wall-to-floor joints. Keep in mind that, for wall-to-floor joints, you can fold tape to make one leg

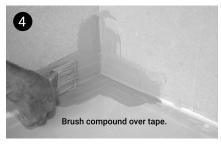


longer than the other so as to cover floor joints set away from the wall, as happens when a shower base location is offset from the wall a bit. Proceed in this manner to cover all joints in the shower, and to install the supply line gasket (shower heads, hand wands, and jet sprays require an embedded gasket). The last step is to embed tape over the outside joints of the shower base.

For a total wet room treatment, embed joint tape and corner tape over all joints between backer board panels, all floor-to-wall joints, and corners throughout the room.











Cover wall joints at least as high as the

shower head.

Joint tape

Overlap tape pieces

at least 1"

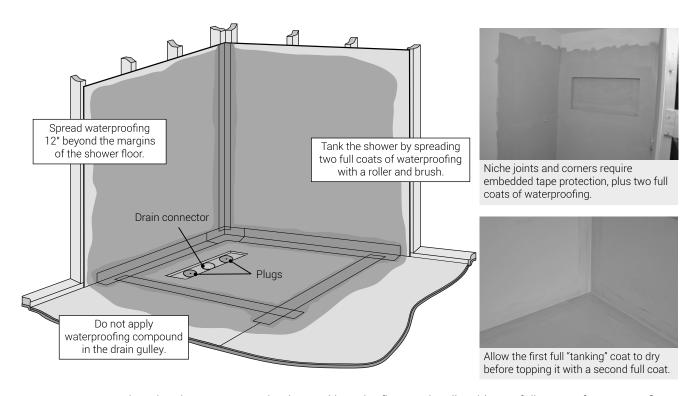
Extend tape

a few inches

beyond shower

base.

Taking the Shower



Now you can complete the shower preparation by "tanking" the floor and walls with two full coats of waterproofing compound. This process will create a seamless protective shield over the entire shower, or throughout the room if you plan to create a wet room. Making a wet room ensures the floor underlayment and related structural materials are safeguarded from moisture—while tile and stone are generally impervious to water, grout and the fine fisures and pits that often form in grout can permit moisture to reach the subfloor if no waterproofing layer exists.

Waterproofing compound applied earlier to embed reinforcement tape does not have to be fully dry before topping it with the first tanking coat, though it's best to avoid stepping on compound that's still tacky. Also, prevent dust or debris from getting on the waterproofing membrane as it may affect adhesion of the next coat. Veteran AKW shower system installers have found that using the shower base as a roller tray accelerates the tanking process. They put mounds of waterproofing on the shower base, then spread the compound onto the floor and walls with a paint roller and brush. Make sure you apply waterproofing compound beyond the shower base at least 12" to ensure that the surrounding area is well protected from moisture should any water get outside the shower.

Allow the first full coat to dry (typically 1½ to 2 hours, depending on humidity, air flow, and temperature) before applying the final tanking coat at right angles to the first coat. To speed up the drying process, run a dehumidifier or fan in the room. This is especially helpful during humid summer months. If you're making a wetroom, tank the entire floor, plus go up the walls 2" to 3" (no higher than the mopboard will cover). Let the final waterproofing coat dry at least 12 hours before laying tile.







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Warranty

Warranty applies only to manufacturing or material defects, conditional on the one-time correct installation of the product. It does not apply to:

- Inappropriate use or accidental damage.
- Damage or defects that result from incorrect installation.
- Lack of maintenance including the build up of grime or damage resulting from inappropriate cleaning.
- Damage or defects that result from repairs or modifications undertaken by unauthorized persons.
- General wear and tear through usage and does not apply to surface finishes.

Warranty period starts from the date of installation.

What to do if something goes wrong?

In the event that you encounter a problem with this product, please contact your local installer. If the issue is still unresolved, please contact AKW Resource Center who will provide further advice. None of the foregoing affects your statutory rights.

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