

Installing the floor covering into the edge of a Mullen Shower Base

After following the instructions inside according to your type of floor, clean any sawdust or sand and cement mix out of the channel to leave it clean, smooth and dry.

Lay the floor covering up to the shower base and then use the inside edge at the bottom of the channel along the front edges of the shower base as a guide for your cutting knife. The channel is made from solid GRP and has been designed to be used as a cutting guide.

The floor covering can be cut unevenly and even short - up to $\frac{3}{8}$ " (10mm) up the sloping side of the channel - and still be clamped properly. **However the more even the cut the better the clamping effectiveness.**

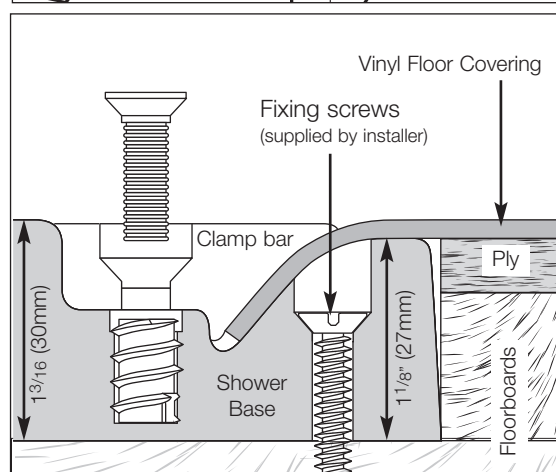
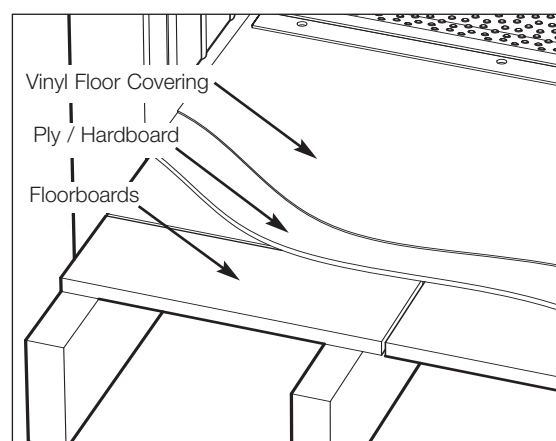
Excess length in the bottom of the channel will stop the clamp working correctly. Cut back any excess floor covering so that it is level with the bottom of the channel.

Apply line of silicone sealant to the inner vertical side and sloping face of the floor covering and to both ends of the clamping bar.

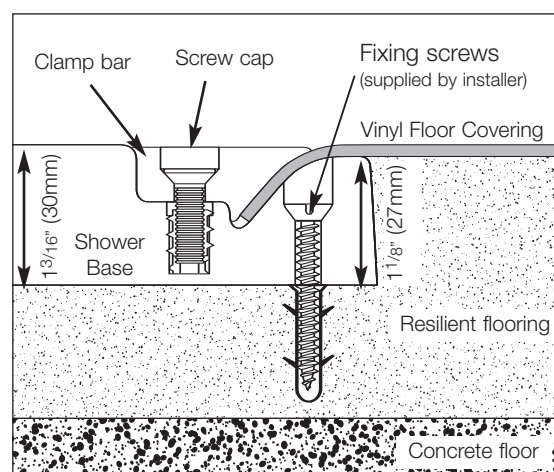
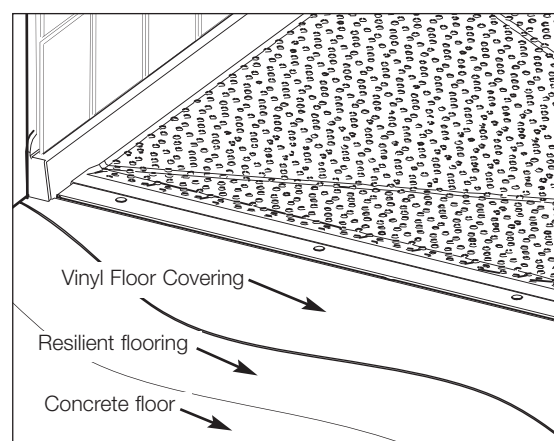
Fit clamping bar, gradually and evenly tightening the screws to eliminate any distortion of the floor covering. Remove any excess sealant immediately.

Finally fit the screw caps, pressing them down firmly, flush with the surface of the clamping bar.

Wooden Floors - Completely level access



Resilient Flooring - Completely level access



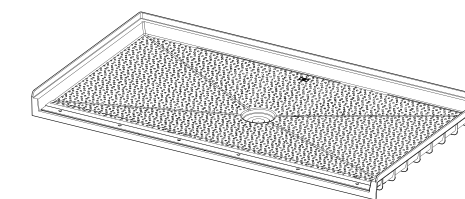
Failure to install this AKW product in accordance with supplied instructions, or the making of unauthorised modifications will invalidate any warranty and will affect product safety.

The measurements throughout these installation and user care instructions have been converted from metric to its equivalent in "english" units, therefore all dimensions are approximate and subject to manufacturing tolerances. This information is furnished upon the condition that the person receiving it shall make his/her own tests to determine the suitability thereof for his/her particular purpose.

For further details on this and other AKW products please contact your distributor - see details on outer packaging



Mullen Shower Base Installation Instructions



READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION AND LEAVE WITH THE END USER FOR FUTURE REFERENCE.

Standard US Bath Replacement Size

**Roughing in: 63" x 34 1/2" 1600mm x 876mm
Finished Shower: 60" x 30" 1525mm x 763mm**

Mullen shower bases are designed for level access installation into wooden or resilient floors for gravity or pumped wastes.

This product uses solid GRP to provide the industry with an innovative, robust and stable solution to Barrier Free showering. This product meets ADA requirements for transferring users to shower seat.

Important notes to installers

This product must only be installed by a competent, qualified person in accordance with these instructions.

IMPORTANT: Before completing the installation, water test the flow from base into drain and test pump if installed for correct installation and drainage efficiency.

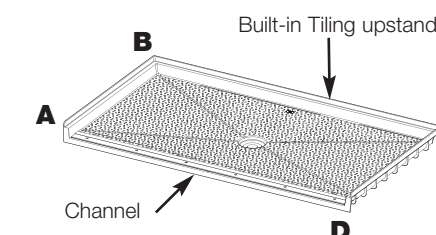
Use a builders level to check A to B, A to C, A to D, then B to C, B to D and finally C to D. - **the fall is moulded into the base.** (See Fig. A)

If a ramp is to be used the floor covering (i.e. vinyl tiles etc.) must be completed before the shower base is set onto floor. This allows the ramp to be at the same height as the shower base. N.B: Ramps are made identical in height to the base.

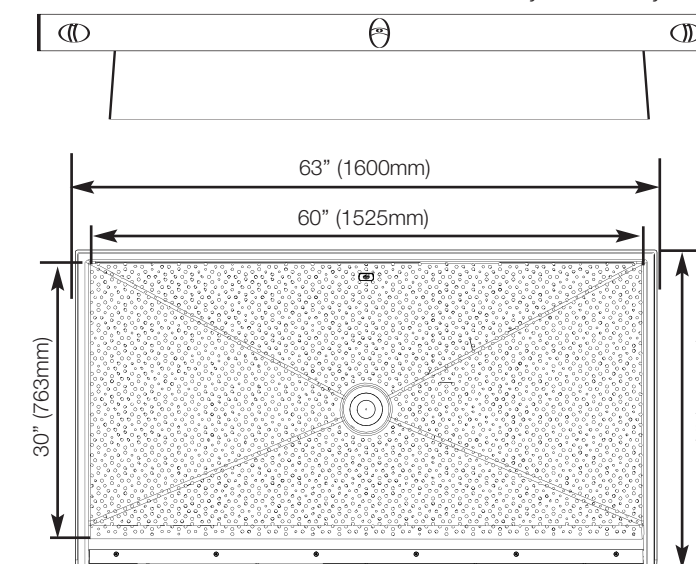
It is not necessary to remove plaster from the walls for installing this base. When tiling, ensure that the bottom row of tiles are bedded in to align with the final position, covering the tiling upstand.

Check all edges are level when installing

Fig. A



A low level, quick draining tray is the single most important consideration in the installation of a shower tray for disability.



Mullen Dimensions

Each Mullen shower base has a channel to accept the floor covering along the front edge.

This extends outside the shower door area by 2" (50mm).

The other three sides incorporate built-in tiling upstands which are $1\frac{3}{16}$ " (30mm) total width, also outside the shower door area. This part of the shower base will be located within the finished plaster / tile wall surface.

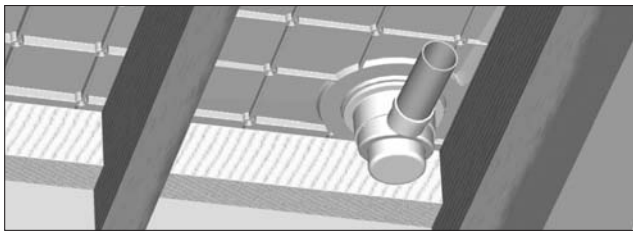
To calculate the size of the recess in the floor required based on the nominal shower door area, simply add $4\frac{3}{8}$ " (112mm) to the width and 3" (76mm) to the length:

The flat Mullen shower base is $1\frac{1}{8}$ " (27mm) below the finished floor surface which is level with the door flat mounting area on the top of the shower base.

The outside edge of the channel is $\frac{1}{8}$ " (3mm) below this level to allow for the thickness of the floor covering. The Mullen shower base is supplied with the floor covering clamping bar packaged where it will be positioned when the installation is complete. Carefully unscrew it from the shower base and put it safely to one side. Loosely refit by hand the M6 stainless steel screws fully into the inserts. Included in the packaging is a plastic bag containing 6 x screw caps. Put this safely with the clamping bar until required.

Installation in wooden floors

Check local codes before starting work - you may need an inspector to check your work at certain stages.



Ensure all 4 edges of the Mullen shower base are supported on joists or blockings. Support the rest of the shower base with joists or blockings on 15³/₄" (400mm) centers.

Step 1

Position the shower base over the desired location for the shower and mark around the edge.

Cut out the flooring area within the marked area taking care not to cut through supporting joists or any electrical wiring which may be below.

1¹/₈" (27mm) of the shower base built-in tiling upstand will be located inside the wall on three sides.

Step 2

Fit Blockings 3"x 2" (75mm x 50mm) to all the edges of the cut-out area to provide support for both the new shower base and the existing floor. Also fit them within 100mm of the drain outlet position.

The joist top surfaces do not require profiling for this flat-bottomed shower base.

Step 3

Align the shower base - to avoid or minimise joist overlap, the Mullen drain location is central.

Step 4

Ensure the edge of the Mullen shower base **outside of the channel** is level with the surrounding floor surface.

Surrounding Floor Lower than the Mullen edge:

Use ply or hardboard over existing floor surface (joists and blockings) to bring surrounding floor levels up to the 1¹/₈" (27mm) depth of the Mullen base. Make sure the floor is level using a builders level.

Surrounding Floor higher than the Mullen edge:

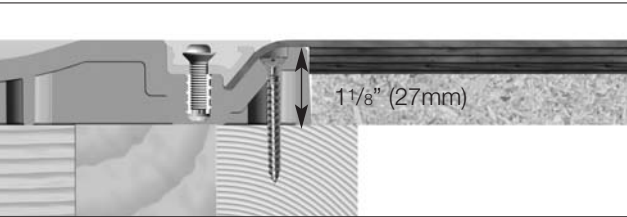
Use ply or hardboard strips on **all** exposed joists **and** blockings to bring the base level to 30mm (1³/₁₆") below the surrounding floor levels.

Fix and seal drain to shower base making sure all connections and pipework are watertight before proceeding to fix the shower base down. Use the screw holes outside the channel – they are the holes closest to the edge of the shower base.

Step 5

Fix Down – when the shower base is fully supported and level with the surrounding floor, apply mastic in conjunction with woodscrews on the tray edge to fix the shower base down onto the joists and blockings.

Use a minimum of 3 screws – it is not essential to use all



the screws holes provided.

Do not overtighten screws.

With the front edge secured to the floor place a level along the tiling upstand side and back edges to check they are level. Seal edges with mastic.

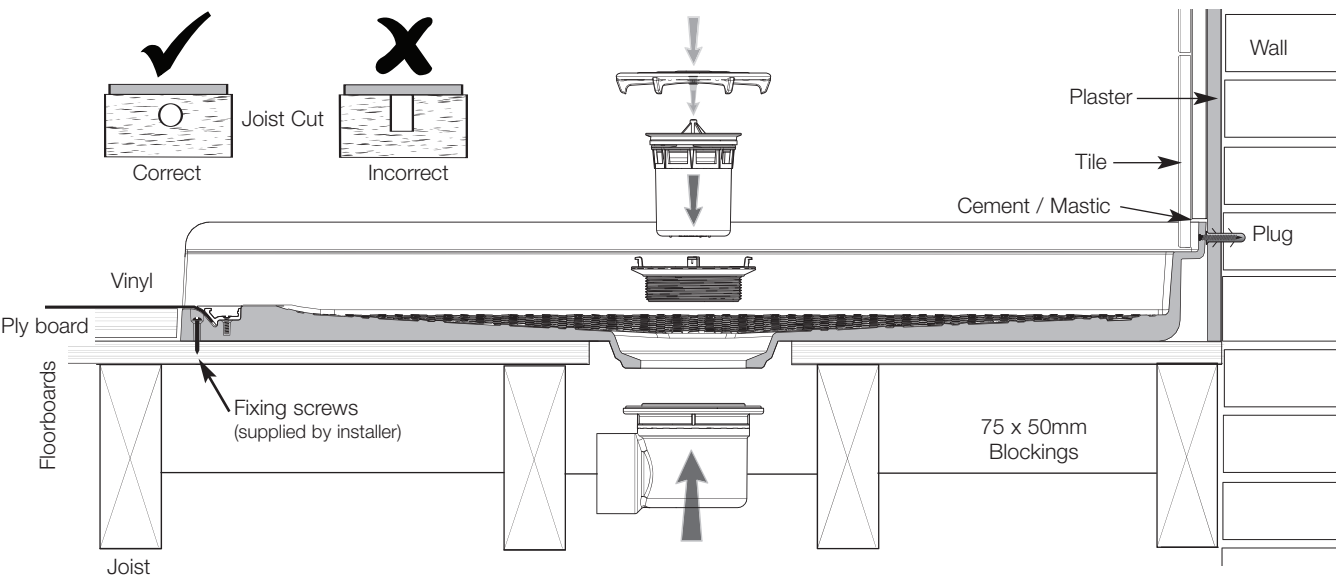
It may be necessary to drill and then screw tiling upstand to wall whilst keeping shower base level. Fit tiles **OVER** the tiling upstand on the shower base to hide fasteners.

Step 6

Carefully clean out the channel running along the front edge of the shower base to remove any sawdust or other trash to leave it clean, smooth and dry. Remove the screws protecting the screw inserts.

Now follow the steps on page 4 showing how to install the floor covering for the different floor types.

The drain cover can now be secured in place.

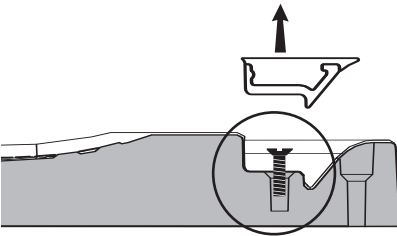


Installation in resilient floors

Check local codes before starting work - you may need an inspector to check your work at certain stages.

MAKING THE JOB EASIER...

Remove clamping bar and loosely refit by hand the M6 stainless steel screws fully into the inserts along the front edge of the base – if you splash the resilient floor into the channel you'll still keep the screw holes clear!



Step 1

Draw a line in desired shower base position less 1¹/₈" (27mm) of full shower base on the left, right and back edges which are to be recessed behind tiles / panelling.

Remove resilient flooring area within line marked to a minimum 1¹/₈" (27mm) depth to suit shower base area.

** Where a gravity drain is to be used you will need to excavate deeper around the drain / pipe work area to allow for greater depth of the drain and a gravity fall. To fit this drain the resilient floor needs to be removed to allow drain pipe to reach outside gully.*

** Where a drain pump is to be used you will need to excavate a minimum of 1³/₄" (45mm) depth is needed under the drain position to allow the drain and pipework to run. It may be required to remove some of the resilient floor to achieve this result. 3/4" pipe or equivalent should be used.*

Step 2

Determine drain pipe exit position on the base. Fix and seal drain to shower base making sure all connections and pipework are watertight before proceeding to fix the shower base down. Position the shower base down into the excavated gap and check depth. See separate drain instructions.

Step 3

Make sure existing floor is level. Use a mortar mix to pack out and fully support the shower base particularly the edges. This is to help bring the shower base to the same height as the existing finished floor level (shower base depth 1¹/₈" (27mm). Check the tray edges are level with a builders level.

The shower base edge outside the channel must finish flush and level with the top of the resilient flooring. The shower base needs to be supported on all four edges and at least 50% of the ribbed underside. Sand and cement may be used and be applied liberally to create a resilient floor 1³/₁₆" (30mm) lower than the finished floor height, this is to hold the shower base firmly in position after fitting.

Check the tiling upstand edge is flat and level before this mix sets. Apply weight to the centre of the shower base then drill and then screw tiling upstand to wall whilst keeping shower base level.

Fit tiles **OVER** the tiling upstand on the shower base to hide fasteners.

Screw down front edge of shower base. Use a minimum of 3 screws per side – it is not essential to use all the screws holes provided, making sure not to over tighten screws. Seal edges with mastic. Test water drains away correctly within shower base.

For tiled floor finish to the shower base see separate instructions supplied with floor tiling kit.

Ensure the shower base is raised above the resilient floor surface to allow tiles to fit flush against the edge of the shower base.

Step 4

Carefully clean out the channel running along the front edge of the shower base to remove any resilient flooring or other trash material to leave it clean, smooth and dry.

Remove the screws protecting the screw inserts.

Now follow the steps on page 4 showing how to install the floor covering for the different floor types.

The drain cover can now be secured in place.

