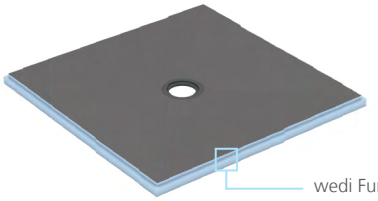
# Installing a wedi Fundo® Shower System

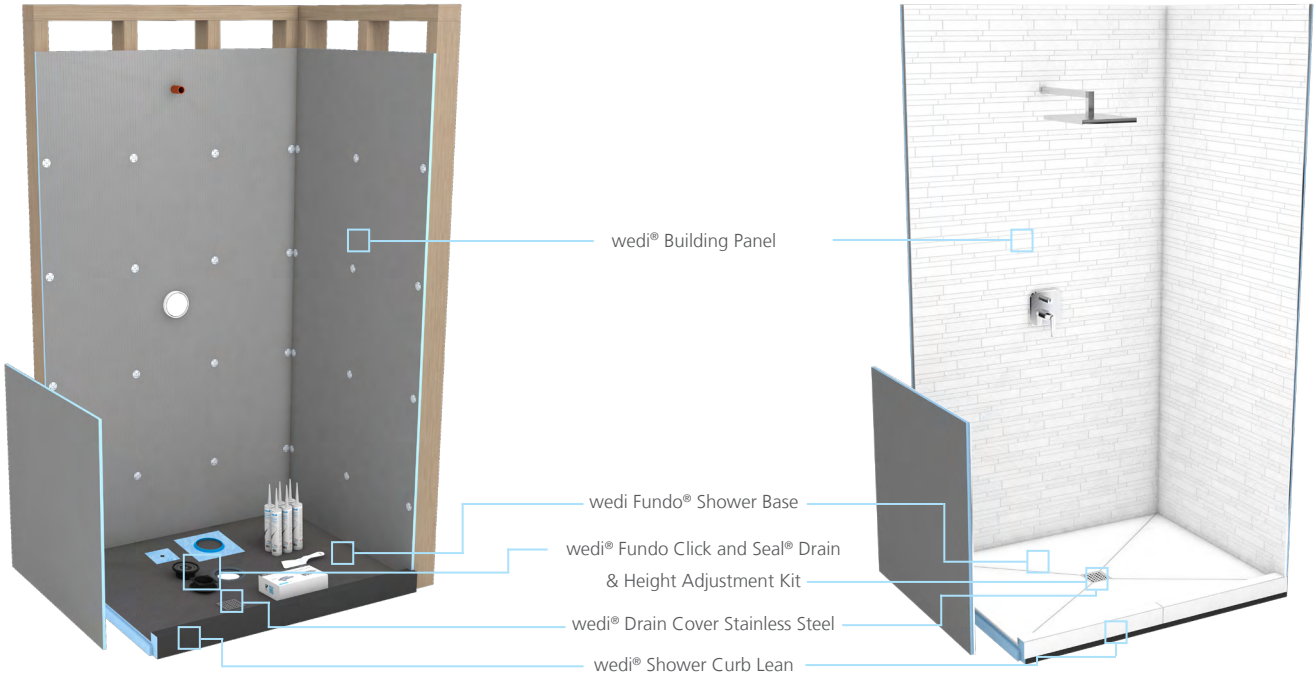
This installation manual will give you step-by-step instructions on how to install the various sizes of wedi Fundo® Shower Base (used with a wedi® Shower Curb Lean, sold separately) or wedi Fundo® Shower Kits (curb included with kit).



wedi® Shower Curb Lean

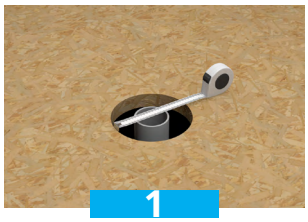


wedi Fundo® Shower Base

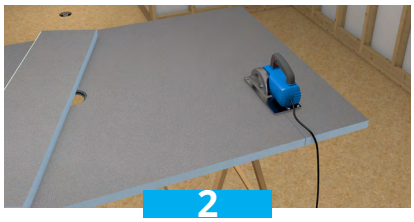



Installation accessories pictured:
wedi® S-DRY™ Mixing Valve Seal & Pipe Seal, wedi® Joint Sealant, wedi® Corner Putty Knife, wedi® Fastener Kit

# Installing the wedi Fundo® Shower Base



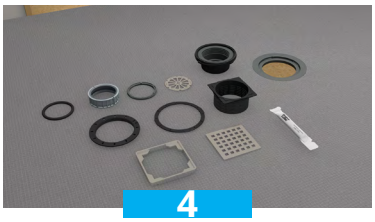

Cut out a 5 inch diameter hole around the 2 inch pipe's center to allow for the wedi drain to be inserted into the subfloor while the cut out area must remain free of deflection. Make sure that the cutout fits the Fundo base's drain. Cut the 2 inch waste pipe even and flush with the subfloor surface. The drain waste pipe and P-trap have to be properly affixed to and supported by the subfloor structure.




Cut the Fundo base to fit between framed walls and so its wedi drain unit can connect with the floor waste pipe. Consider the space needed by a curb or extension before cutting your wedi base, as cutting the base may change the slope design and tile layouts should be considered before cutting. Consider that enough material thickness remains available to later remake the ½ in. x ½ in. perimeter channel whereby the bottom of the channel must not be thinner than ¼ inch. Do not cut close to the integrated drain and maintain a minimum distance of 2 inches from the drain opening. It is recommended to turn the base on its back so you can move the circular saw over a flat surface, ensuring a square cut.




Once cut, dry-fit the base and then remake the ½ in. x ½ in. perimeter channel where the base connects to wedi® Building Panels, Curbs, Ramps or Extensions. Clean the base and channels from saw dust using a vacuum cleaner.




Next, install the wedi® Fundo Click and Seal® Drain Kit. Drain components are delivered inserted inside the drain body. Please take the parts out and use step-by-step by following our manual here.
Apply the wedi-provided safe lubricant (silicone

# Installing the wedi Fundo® Shower Base




base) to the black rubber ring inside the wedi drain body.




Insert the drain body snugly into the receiving mechanism of the drain unit on the underside of the Fundo base. Make sure the base is well supported at the drain area (ie. placed on a plywood sheet or table) so installing the drain unit will not bend the base.




Once inserted, turn the drain body clockwise until its plastic flap clicks in position in its final resting position. This will require no more than a quarter turn. If you ever want to remove the drain body from a locked position, use a flat head screwdriver to push the snap mechanism's plastic flap inwards while unscrewing the drain body counter-clockwise (left) at the same time. In case it is difficult to hear the click mechanism, you can also verify a safe connection as described under point 8. Be careful not to push the drain body into the base with force as this can damage the integrated drain parts. Ensure the locked in place drain unit is resting flush in the base's receiver and is flat and level with the base's cement coating.



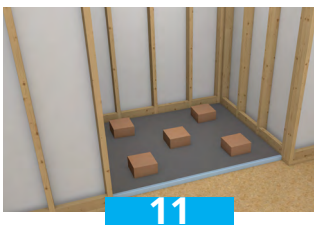

You can verify the drain unit has successfully connected when the single hash marks are centered between the double hash marks on the top side of the drain.




Clean the subfloor with a moist sponge to remove dust and dirt, and apply a skimcoat of a suitable, modified tile adhesive/ thinset (ANSI 118.4 or better), and comb through with a ¼ in. × ¼ in. notched trowel. Trowel lines should be applied uniformly and point towards the shortest side of the base area.




Trowel the thinset on the bottom side of the Fundo again using a ¼ in. × ¼ in. notched trowel. Apply a skim coat of thinset over the entire product's cement surface, then comb through the thinset bed, creating channels pointing in same direction as applied on subfloor.




Press the Fundo base firmly into the thinset bed (sloped side up) ensuring that the installation is level along the perimeter and sides, and thinset attachment and coverage is void-free. Apply some equally-distributed weight (e.g. tile boxes) and leave on surface and drain area to allow the thinset to initially cure without being disturbed. Make sure the floor waste pipe is centered within the wedi drain unit and remains there until the drain connection is completed. To avoid movement of the base while thinset is fresh you may fix it in position using wood blocks temporarily fixed to the floor against the base on sides not framed in.

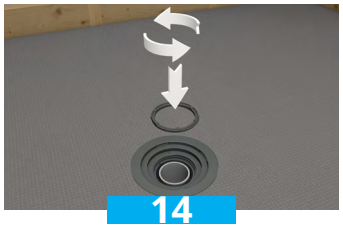



Apply the lubricant to the rubber sealing gasket and insert the rubber sealing gasket between the wedi drain unit's interior and the outside of the 2 inch waste pipe in the floor. Push the rubber sealing gasket down along the waste pipe until it is stopped by the drain unit's lower interior flange.




Apply the lubricant to the rubber part of the compression spacer. With the rubberized part pointing up now, insert the compression spacer in between drain unit and waste pipe and on top of the sealing gasket. The compression spacer will push the rubber sealing gasket down into its resting position. The compression spacer's rubberized part will not always sit flush with the floor waste pipe's edge, which is due to the thinset thickness tolerances under the shower base.

**Note:**
**The rubberized part of the compression spacer is not part of the wedi drain's waterproofing design – it is used solely to keep all dirt out of the drain connections. If the compression fit spacer is too tight to easily fit around the waste pipe, you can cut the compression spacer into two halves (cut at indicated markers) and fit them in better individually.**




Insert the locking nut with notched side up into the threaded part of the drain unit opening and screw down until locking nut top is flush with top edge of drain unit's threaded part. **Important: Turn the locking nut counter-clockwise (left) to insert and screw into flush position.**




Insert strainer key into locking nut at notch connections and with strainer key printed side up. The strainer key is used as a tool to tighten the compression seal of the drain unit, but remains in place later to serve as a hair catcher to protect the drain and make maintenance and cleaning easy.




Insert a flat head screwdriver into strainer key slit and turn counter-clockwise (**left**) to tighten the compression seal. Achieve a hand-tight fit and do not over-tighten.

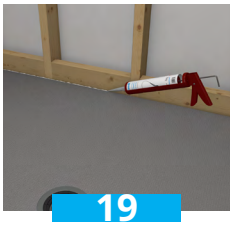



Loosely insert alignment ring 1 into the drain unit opening with printed side up. Align the notch and arrow in alignment ring 1 with the arrow printed on the drain unit. Alignment ring 1 has a threaded inside which will later allow you to insert a drain cover height adjustment kit, which will allow you to laterally and vertically move your drain cover for perfect alignment with the tile finish. Alignment ring 1 is also needed to support the drain cover unit when no drain cover height adjustment piece is used. Alignment ring 1 has built-in drainage slits to allow the thinset mortar around the drain area to drain water quickly.

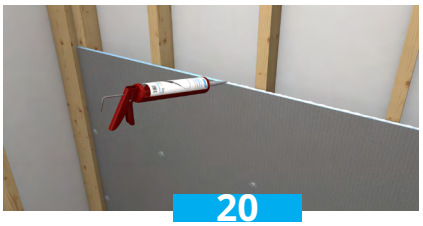



Insert the snap ring 2 into drain unit opening with printed side up. Align its arrow and protruding key fitting into the notch and arrow of the alignment ring 1. Snap ring 2 needs to be secured in place with its perimeter notches snapping into grooves which are premade in the drain unit. Snap ring 2 is used to secure the movable alignment ring 1, and it is needed to later support the drain cover unit. It is equipped with drainage slits to allow thinset mortar around the drain area to drain water quickly.

# Installing the wedi® Building Panels


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Dry-fit the wedi® Building Panel to ensure the proper fit into the perimeter channel. Clean the perimeter channels from dust or any other contaminants. Set up a continuous ½ inch bead of wedi® Joint Sealant along the base's channel on the outer perimeter and only in areas where you can immediately install a building panel into the fresh sealant.


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Push the wedi® Building Panel fully into the channel of the shower base, being sure the bead of sealant is fully compressed. Smooth out any pushed out sealant on inside seam using a wedi® Corner Putty Knife. Fasten the panels directly to the studs starting 1 foot above the base and in corners while keeping the board pushed down into the channel, and set the wedi fasteners with wedi washers at a rate of one fastener per 1 foot. On every framing stud, one fastener has to be installed through the seam between two adjoining building panels to create a smooth transition. wedi requires wedi® Building Panels to be installed in all areas exposed to water and never lower than 6 inches above any shower fixture.


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Apply continuous ½ inch beads of sealant between all connections of panels and install with tightly butted seams. Excess sealant must be spread flat with a putty knife. All seams and fastener heads in the assembly are covered with a topical ½ inch bead of sealant and spread flat. The seams should be covered 1 inch on either side of a seam. All fastener / washers are covered with sealant stretching 1 inch over the washer edges.

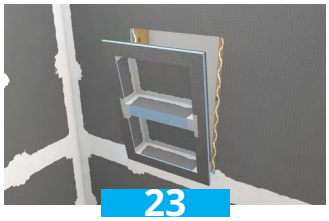
**Note:**

**Several wedi Fundo® Shower Base models naturally feature different perimeter height or thickness at the edge. Therefore, pre-made standard notch connections of wedi curbs must be modified in the field for a tight fit to the bases. Ramps and Extension panels can naturally not fit to all models and might be modified in the field as well. When using curbs with shower bases and/or Fundo extensions that create a one directional slope and build up height towards one side of the shower, you may need to increase the height of the curb to exceed the surface of the shower base as required by applicable plumbing code. Where wedi® Building Panel is installed over corners of a structure showing an angle other than 90°, please miter the board edges to gain adhesion surface.**

# Installing wedi® Shower Upgrades and finishing the entrance


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wedi® Shower Niches are installed in a cut out in the wedi wall and attached with its flange right into the center of 16 inch o.c. studs. wedi® Joint Sealant is set along the connection of wall to niche.


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Fasteners are placed every 12 inches on either side of the niche, or a minimum of one fastener on each of the four corners, are set to create a flat transition to wall panels. Another ½ inch bead of wedi® Joint Sealant is spread flat over fasteners and seams.


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A continuous ½ inch bead of sealant is set into the channel and along the vertical curb notch part. ½ inch beads of wedi joint sealant are equally applied on wall surfaces where the curb attaches. A ¼ inch square notch trowel is used to apply a thinset mortar on the subfloor and on the wedi curb bottom (reference wedi Fundo installation in thinset mortar). The tightly-fitting curb is pressed into the connection area. wedi Lean Curbs can be installed by entirely using wedi® Joint Sealant (replaces thinset attachment to floor). Please note: wedi curb notches are pre-made for channel connections to wedi bases 1½ inch thick at perimeter. When using thicker perimeter bases, please cut the curb notch for a tight dry-fit connection.


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Weight is applied for a minimum of 30 minutes on and against the curb (from outside) and another ½ inch bead of sealant is applied over all curb seams and spread flat. The seams must be covered 1 inch on either side.

# Installing the wedi Fundo® Drain Cover


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Next, insert the drain cover height adjustment kit into the threaded part of the alignment ring 1. Dry-fit the Drain cover extension for the needed final height position of the drain cover unit. The drain cover height adjustment kit only works for wedi's finished surface drain covers, but not with wedi's tileable covers due to their special water drainage design. wedi Tileable covers are made to work with defined tile thicknesses and can be inserted into the alignment ring 1 and snap ring 2 assembly directly.


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Dry-fit a tile for the shower base right next to the extended drain cover unit and determine to what height the drain cover height adjustment kit may need to be cut down for a drain cover top flush with the top of the tile (or drain cover top slightly below top of tile). Account for the thickness of the (compressed) thinset mortar used to install the tile. Using a ruler or measuring tape if necessary, match this measurement along the side of the drain cover height adjustment piece.


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The drain cover height adjustment piece can be cut to height/length at its threaded part using a fine tooth saw for a fast, clean, and safe process. Make a cut within one of the cutting grooves to adjust the extension to the height needed. Leave the extension a bit longer than needed (by one cutting groove). The drain cover extension should connect to the threaded alignment ring safely and for good support, which requires at least one full turn of the extension's male threads reaching into the Alignment Ring 1's female threaded part. The extension can be used to increase the position of the drain cover by 1 ¼ inch. If no height adjustment or increase in height is needed for the drain cover, please cut the drain cover extension shorter at the cutting groove closest to the squared top. This will leave enough of the tightly threaded part needed to connect into the drain opening or Alignment Ring. This will allow you to let the wedi drain cover rest flat over the drain opening once assembled (see next steps).

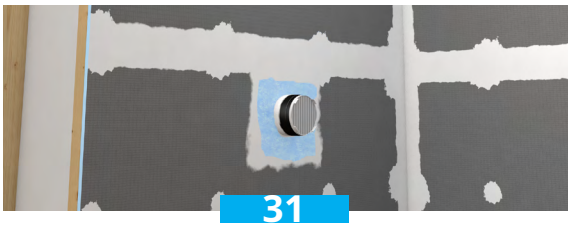

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The drain cover unit can still be moved laterally 3/16 inch in either direction, and can be aligned with the tile regardless of how much height was added.


30

Place the drain cover unit into the Drain cover extension where it fits into a tight seat. The cover is now vertically adjustable and can also move horizontally to fit the tile layout.

# Finishing the wedi Fundo® Shower System



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For the installation to properly work it is critical to waterproof all penetrations of the wedi product such as shower valves and shower heads using the appropriate sealing gaskets for the application. The wedi® S-DRY™ Mixing Valve Seal and wedi® S-DRY™ Shower Pipe Seal (for ½ in. – ¾ in. shower pipe protrusions) are used for these applications, and are installed using a full bed of wedi® Joint Sealant or wedi® S-DRY™ SEAL for attachment. These sealing measures are required for wedi's waterproofing system warranty. Contact us for alternative waterproofing options if fixtures do not fit wedi standard collars so we can recommend optional best practices under wedi warranty.



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The wedi Fundo® Shower System is now ready for tiling as soon as the surface applied wedi® Joint Sealant is dry to the touch.

# Important notes for preparing and completing a wedi Fundo® Shower Installation

- Have 2 × 4 blocks installed on base plate between and flush with front of wall framing studs to best support wedi wall panel / shower base transition.
- Subfloor is stable and loadbearing, flat and level, and meets deflection criteria of maximum L/360 as per IRC. Wooden or concrete structural substrates are dry and sufficiently loadbearing considering live and dead load. Wood and Steel framing is sufficiently loadbearing, even, level, and square.
- Floor drain assembly below floor is stabilized, fixed and supported in position, and will not sink under water load. Waste pipe is level and plumb.
- Only wedi products (Building Panels, Curb, Joint Sealant and Fasteners) are used for wedi Fundo® Shower System assembly.
- Ensure that no fasteners are used and penetrate through any horizontal building panel or shower base surfaces in showers and immediate wet room applications. This includes tub decks, pony shower wall tops, curb tops made from building panels and seat tops. wedi panels in such areas are installed in a full surface applied thinset mortar setting bed or using 1/2 inch beads of joint sealant starting 1 inch off a side and applied in continuous lines every 2 inches. Ensure there are at least 2 beads on a contact surfaces between 2 and 4 inches wide.
- Where wedi® Building Panel or curb caps are installed over horizontal surfaces (seats, partial curbs, tubdeck transitions) do not set any fasteners and do not allow the glass door installation to penetrate the wedi panel as it is your waterproofing.
- Make sure that doors are installed tight to contain water inside the shower. Make sure doors are installed to only load bearing reinforced framing. Consider wedi® Shower Curb AT (Anchor Track) when planning to mount glass door/panel fixtures through the curb surface.
- Seams in the assembly, which are not flat transitions or right angle inside corner connections, are treated with these extra steps:
  1) Assembly parts are installed tight and offer a minimum of ½ inch wide continuous contact/adhesion surface between two parts, inside which wedi® Joint Sealant is continuously applied.
  2) Apply ½ inch bead of wedi® Joint Sealant over all seems, spread flat over the seam covering it 1 inch wide on both sides of the seam. The joint sealant should be 1/6" thick also where it wraps around an outside corner. Use an alkali resistant mesh tape between two applications of wedi® Joint Sealant as a thickness gauge if needed.
  3) wedi® S-DRY™ Tape is installed over these seams in a bed of wedi® S-DRY™ SEAL if these seams are exposed to flood testing.

# Tools needed for a wedi Fundo® Shower Installation



- Inside Pipe Cutter
- Caulk Gun
- Screw gun w. Phillips bit
- Corded thinset mixer with 650 RPM minimum when using wedi® PRO-SET™
- Bucket
- Handsaw
- Circular Saw
- Utility Knife
- Solid Putty Knife
- wedi® Corner Putty Knife
- Flat Head Screwdriver
- Saw Horse
- Level
- Tape Measure
- ¼ in. square Notch Trowel
- Straight Edge/T Square 5 ft. (1524 mm) or longer
- Respirator Mask (N95)
- Safety Glasses
- Ear Protection
- Permanent Marker
- Paper Towels
- Scissors
- Shop vacuum cleaner
- Extension Cord for Power-tools

# Post -installation check list and tiling

All fastener points are visibly covered with wedi® Joint Sealant. All protrusions (ie. plumbing fixtures) are sealed into the wedi assembly with wedi gaskets and sealant. All visible joints or seams in the installation are visibly covered and reinforced with wedi® Joint Sealant that is applied flat over the seams. Coverage of wedi® Joint Sealant over all seams should be at least 1 inch on either side of the seam. wedi® Joint Sealant should be no less than $^{1}/_{16}$ inch thick to ensure strength. Do not add mesh tape into the wedi® Joint Sealant except when used as a thickness gauge over difficult-to-seal-over outside corners and when in area not subjected to high water exposure. It is recommended to add wedi® S-DRY™ Tape over seams featuring outside corners (e.g. pony wall tops or curb deck transitions). Once wedi® Joint Sealant has been applied over all shower system seams, an optional water flood test may be performed in as little as 2 hours. If wedi® S-DRY™ SEAL and wedi® S-DRY™ Tape was used, wait 6 hours. Please ensure the sealant has cured sufficiently and has formed a skin, is no longer pliable or sticky leaving sealant residue upon touch. wedi® Joint Sealant is a moisture curing product that will react to cure very slow when applied in a location with low relative humidity in the air, and it will overreact and malfunction if exposed to too much water (i.e. flood test) too early. The flood test should not exceed 24 hours, nor should the water level exceed the height of the perimeter seams so that the fresh sealant may continue to a full cure without too much weight added during that process. Be careful not to fill water all the way to the top of the curb where it may work itself through the thinset bed of the curb top finish and escape over the wedi curb surface which may lead you to mistakenly believe the shower is leaking. wedi recommends testing the drain connection for a proper seal. While a full surface flood test is not required for non-absorbing products like wedi, it may be required by a building inspector. When tiling commences, do not use any premixed ("mastic") tile adhesives over wedi® systems in wet-area installations. When tiling the wedi Fundo® Shower Bases, including extensions, tile thickness should generally be no less than 1/8 inch. Be aware that wedi Fundo® drain covers are 3/16 inch thick, so very thin tile must be appropriately supported by a compressed thinset bed to reach an installation height slightly higher than the cover. Plan for a ¼-inch overall tile installation height. Ceramic and stone tile must be installed in accordance with ANSI A108-A118-A136.1 , details and requirements established by the Tile Council of North America, and specific manufacturer recommendations. The following recommendations are made specifically for tile installation over wedi products and supersede when in conflict other requirements and limitations.

Tiles should have a minimum thickness of 1/8 inch (3 mm) and adequate for the application on a sloped surface in a wet environment.

The appropriate trowel size should be selected based on recommendation by manufacturers of mortar and tile and a thinset mortar coverage under the tile of 95% or greater must be achieved. It is recommended to remove factory applies mesh if this can interfere with adhesion transfer of mortar to the back of the tile or substrate. Some tiles should be back buttered.

Tiles with a square size larger than 1 x 1 inches ( 25.4 mm x 25.4 mm) and with no side 1 inch (25.4 mm) or shorter, may be installed using a modified cement based thinset mortar in accordance with ANSI A118.4 or ANSI A118.15 and a modified cement based grout in accordance with ANSI A 118.7.

Tiles with a square size 1 x 1 inches ( 25.4 mm x 25.4 mm) or shorter may be installed using a combination mortar and grout made from 100% solids epoxy in accordance with ANSI A118.3.

wedi showers that are subject to increased point loads (example: wheelchair , shower chairs) should be tiled with tiles of a square size 2 x 2 inches ( 50.8 mm x 50.8 mm), or larger, and with no side shorter than 2 inches (50.8 mm), and should be installed using a combination mortar and grout made from 100% solids epoxy in accordance with ANSI A118.3. Pebble tile or river-rock type tiles must be fully supported under all edges with sufficient coverage of thinset mortar. These tiles require a relatively thick bond coat to ensure proper coverage and bond to the shower base. Moisture-sensitive tile and stone, including marble, are best protected when installed using 100% solids epoxy tile adhesive and grout. Verify with the manufacturer of mesh-mounted tile that the adhesive and mesh used on the back of the tile are suitable for use in wet areas. It is important to achieve full transfer of thinset mortar through the mesh to the back of the tile. A best practice we recommend is to always remove the mesh when setting the tile. Large-format tile may be installed over wedi Fundo® shower bases. Cuts may have to be made in consideration of the base's slope lines to ensure that the tile is fully supported by the adhesive bed and the wedi® Shower Base surface. Refer to TCNA guidelines for the setting material coverage required for tiles installed in wet-room applications such as wedi shower projects (minimum requirement is 95% mortar coverage under the tile). Use only cleaners and sealers that are free of acid or solvents on tile or grout installed over wedi® Products, and apply only the amount needed to treat the surface materials without saturating the substrate. Avoid heat sources when making grout repairs, as they may damage the foam core of the product. Follow the setting-material manufacturer's recommendations, and contact wedi with any questions or regarding applications not covered here.

