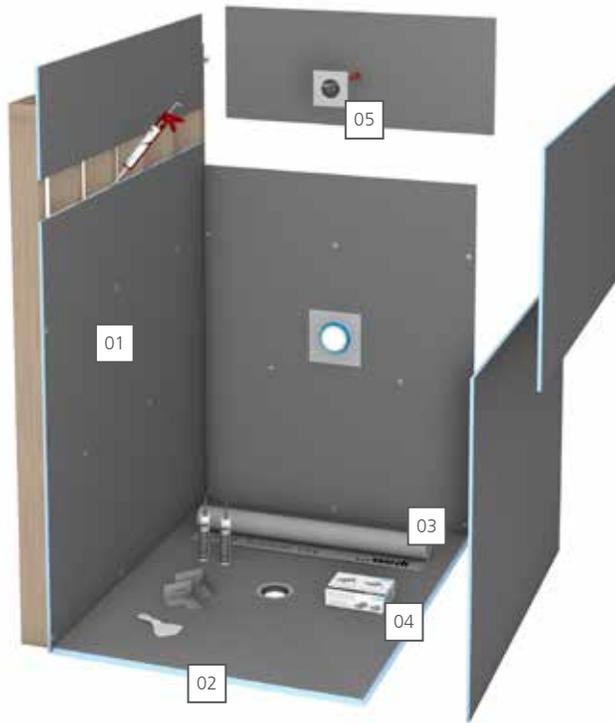


# wedi Shower Kit – Ligno®

## Full Shower System in a Box



All products needed to build a wedi walk-in point drain shower are included and provide a single manufacturer warranty. Safe transportation in one box, easy estimating of product quantities needed. To address all challenges for tile professionals, wedi engineered Fundo Ligno, a sloped shower base  $\frac{3}{4}$ " thin at its perimeter and available in various sizes. Fundo Ligno can be field modified. The installation within a  $\frac{3}{4}$ " plywood structure requires no cutting into joists. Load-bearing plywood is simply re-installed between floor joists and over wedi's recess kit bracket system. This guarantees a full support and protection of the tiled surface. The wedi typical strong cement based, reinforced surface is pre-sloped, directly tileable with large or small format tile. The Fundo Ligno interlocks with wedi Building Panel used as waterproof backer board on walls as well as on the surrounding floor. Optionally, wedi's Subliner Dry Sheet Waterproofing membrane can be used. Both options offer a complete and professional system installation.

- 01 wedi Building Panel
- 02 wedi Fundo Ligno Shower Base
- 03 wedi Subliner Dry and Accessories
- 04 Screws and Washers
- 05 Subliner Dry Flexi Collars for pipes and valves

#### \*Found in each kit:

- Fundo Ligno Shower Base (1)
- wedi 36 in. OR 48 in. x 60 in. x 1/2 in. Building Panels (5-6)
- wedi Fundo Kit Drain Standard (1)
- wedi Joint Sealant (8 10.5 oz tubes)
- wedi Sealant 620 (2 10.5 oz tubes)
- wedi Fastener Kit (1 screws/washers 100ct)
- wedi Corner Putty Knife (1)
- wedi Mixing Valve Flexi Collar (1)
- wedi Flexi Collar (1)
- wedi Subliner Dry Mat (1)
- wedi Subliner Dry Sealing Tape Outside Corner (2)

## wedi Fundo Ligno Product Information

wedi Fundo Ligno is designed to provide for a low profile base thickness of only 3/4" (19 mm). This allows for a fast and flush installation into a subfloor assembly without cutting into floor joists. The system is designed to work without a curb. Enjoy the ease of installation without creating a structural hazard because you maintain the structural subfloor panels installed between floor joists under the wedi Fundo Ligno. Due to barrier free showers potentially being exposed to heavy point loads (e.g. wheel chair), you can confidently rely on the structural strength of the wedi Base and subfloor as well as the wedi Fundo's traditionally ~~not~~ strong cement based surface for ideal tile bond using any suitable cement based tile adhesives or grouts. As applied to all wedi Fundo Shower Systems, wedi Fundo Ligno is designed to interlock and work with wedi Building Panels, wedi Joint Sealant, wedi Fasteners, wedi Seats and Benches, wedi Niches and many more accessories, that truly complete your shower installation and waterproofing system. The installation is fast, modular but customizable, and covered by wedi's full system warranty.

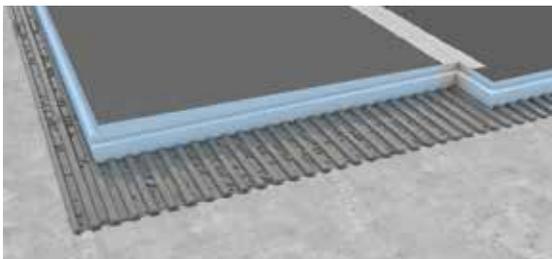
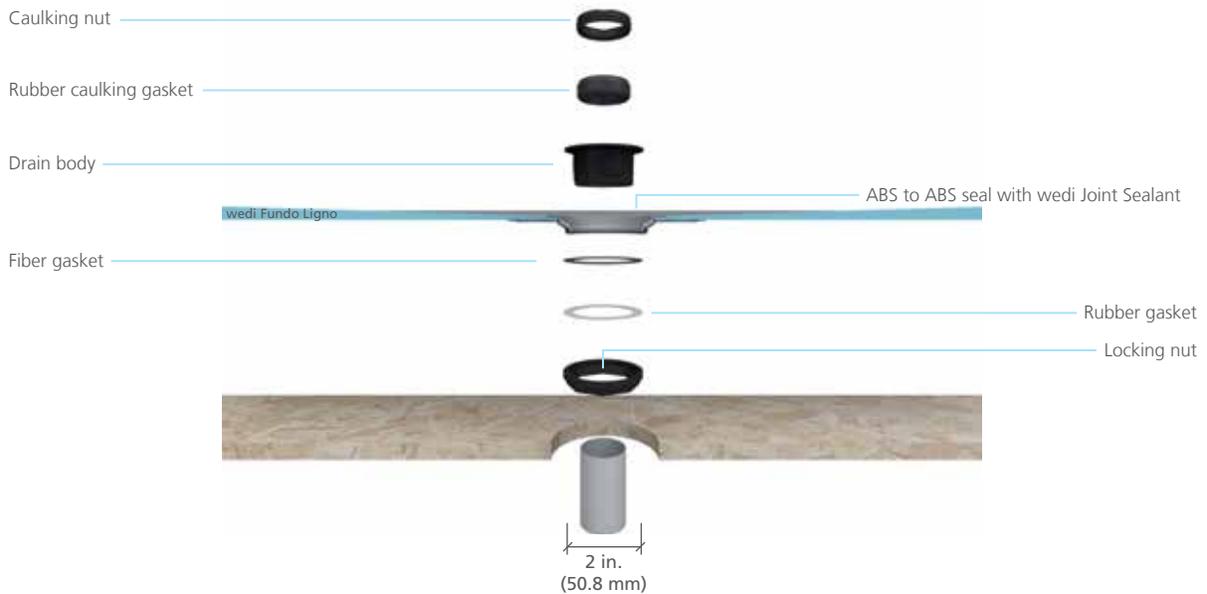
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### Note for Installation

Optionally a glue drain can be obtained from wedi. For a cement glue connection, the floor pipe must be cut 2 7/8" (73.2 mm) below the surface of the subfloor. Optionally a brass drain can be obtained from wedi. The installation proceeds as shown for the standard drain provided with each Fundo base.

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### Drain to Base Assembly



The shower base may be extended using a pre-sloped wedi extension panel.

**!** Note 2 in. outside diameter is nominal (2 3/8 in. for PVC/ABS schedule 40 pipe and 2 in. for cast iron/copper).



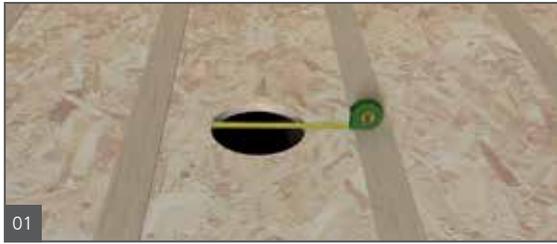
## wedi Fundo Ligno® Installation

### Before Installation:

- Have extra 2 × 4 blocking installed over bottom plate between studs to support wedi Building Panel to shower base transition area.
- After recessing or when system is installed over regular subfloor, subfloor is stable, even and load bearing, and meets deflection criteria of maximum L/360 and requirements as per IRC. Wooden or concrete structural substrates are dry and sufficiently load bearing considering live and dead load. Wood and Steel framing is sufficiently load bearing, plum and square.
- Floor drain assembly below floor is stabilized, fixed and supported in position, and will not sink under water load.
- Only wedi products (Building Panels, Curb, Joint Sealant and Fasteners) are used for wedi Fundo Shower System assembly.
- Installer has received instructions from wedi Technical Sales Staff or is informed about proper installation methods as described.
- wedi Shower Bases can be cut to size using a skilsaw. The Z notch channel must be remade and cleaned from sawdust or other possible contamination.

**i** Use wedi Fundo Ligno Recess Kit to safely install and support recessed plywood sheets between floor boards.

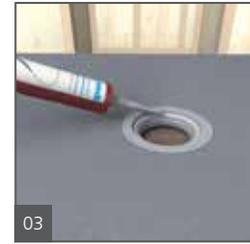
- Follow applicable state or local plumbing codes requiring specific and dimensioned waterproofed areas for a shower system or other wet room installation. Requirements in this manual supersede local plumbing codes; they extend and are not in conflict. wedi Shower Systems or other wet room installations in which non-wedi product is also used require specific project recommendations by wedi and may reduce the extent and installation area of protection offered by wedi's warranty.
- Ensure that no fasteners are used and penetrate through any horizontal building panel or shower base surfaces in shower or immediate wet rooms. This includes tub decks, pony shower wall tops, curb tops made from building panels, seat tops. wedi panels in such areas are installed in a full surface applied thinset mortar setting bed.
- Seams in the assembly, which are not flat transitions or right angle inside corner connections, are treated with these extra steps:
  - Assembly parts are installed tight and offer a minimum of ½ in. wide continuous contact/ adhesion surface between two parts, inside which wedi joint sealant is continuously applied.
  - wedi joint sealant is applied over these seams topically, and 1 in. wide on both sides of the seam.
  - wedi mesh tape is installed over these seams and covered with joint sealant 1 in. wide on both sides of the seam.



01 Cut 3/4 in. (19 mm) wood floor base out fitting the space of wedi Fundo Ligno. Safely install 2 in. x 6 in. (50.8 x 152.4 mm) blocking along floor joists and in between floor joists where the perimeter of the Ligno base will be located, install 2 in. x 6 in. (50.8 x 152.4 mm) blocking 3/4 in. (19 mm) below the top of the floor joists. You may also use wedi's Fundo Ligno Recess Installation Kit, which utilizes metal brackets designed to help you recess the wood floor without framing work and can replace the need of 2 in. x 6 in. (50.8 x 152.4 mm) sistering of joists and they may be fastened to the structure to suspend the wood floor subfloor. Adjust for thinset thickness under wedi Fundo Ligno base and/or the flooring underlayment installation adjacent to shower area to create a flush transition for waterproofing and tile between floor and shower area. Re-install 3/4 in. (19 mm) wood floor over blocking or profile system to have the wood floor flush with the floor joists and fill with furring strips on top of floor joists in case the blocking/joist that carry the wood floor under wedi Base is installed higher than 3/4" (19 mm) deep from top of floor joists. Make sure the entire perimeter of the wedi Fundo Ligno base is supported by floor joists or adequate blocking. Make sure the wood floor base shows no seams where close to the cut out for the wedi Fundo Ligno drain. The cutout around the center of the 2 in. (50.8 mm) floor pipe must be 6 1/2 in. (165.1 mm) (max 7 in. [177.8 mm]) in diameter to allow drain recess and must not create any subfloor deflection. The pipe is cut square and even at 5/8 in. (15.9 mm) below the recessed subfloor top surface.



02 Assemble the drain unit following the instruction drawing.



03 Set up a continuous 1/4" (6.4 mm) bead of wedi Joint Sealant along the top side of the wedi Fundo's valve groove profile. Optionally you can apply the bead on the underside of the main drain body's flange. This will help keeping sealant off the threads of the main drain body when it is inserted.



04 Drop the drain body firmly into the sealant.



05 Turn the Fundo base upside down and apply the rubber and the fiber gasket.



06 Tighten the gaskets firmly to the bases' steel ring using the locking nut. Make sure the drain body is still safely received in the valve-bead of sealant. Smooth out excess sealant over the drain body's flange surface.



07 Skim coat the thinset ANSI 118.4 and comb through with a 1/4" x 1/4" (6.4 x 6.4 mm) notched trowel channels pointing to the entrance.



Trowel the thinset on the rear side of the Fundo again using a 1/4" x 1/4" (6.4 x 6.4 mm) notched trowel. There are different ways to ensure good bond of the wedi Base to the subfloor. Required is a setting bed thickness of min. 3/16" (4.8 mm) and max. of 5/16" (7.9 mm) (compressed). Applying thinset on both, the wedi Base and subfloor, is a best practice recommended to achieve full surface coverage adhesion. Another best practice is to use fast setting mortar to achieve faster bond and adhesion. Press the wedi Fundo firmly into the thinset bed, ensuring that the installation is level and void free. Apply some weight equally and leave on surface and drain area to allow the thinset to initially cure without being disturbed (e.g. thinset bags).



Set up a continuous 1/2" (12.7 mm) bead of wedi Joint Sealant along the pans channel on the outer perimeter and only in areas where you can immediately install a building panel into the fresh sealant. Push the wedi Building Panel all the way into the channel of the shower base channel and its bead of sealant. Smooth out any pushed out sealant on the inside seam using a putty knife. Fasten the panels directly to the studs starting 1 ft. (304.8 mm) above the base and in corners while keeping the board pushed down into the channel, and set the fasteners at a rate of 1 fastener per 1 ft. (304.8 mm). One extra fastener is set into the seam to the next panel to create a flush transition. wedi requires wedi Building Panels to be installed in all areas exposed to water and in any case no lower than 6" (152.4 mm) above all water inlet fixtures.



Set up the rubber caulking gasket (with the beveled side up) around the 2" (50.8 mm) pipe in the subfloor. The rubber gasket must be flush with the upper end of the 2" (50.8 mm) ABS or PVC pipe.

**Do not use any lubricants.**



60 minutes after initial installation of the drain with wedi Joint Sealant tighten (squeeze) the rubber caulking gasket firmly with the caulking nut (use a flat headed screwdriver) and finally insert the plastic frame and strainer on top (without adhesive). The frame and strainer will be held in a grout joint only once tiling commences. Do not tighten the gasket prior to 60 minutes after the threaded drain part was sealed into the shower base.



Apply continuous 1/2" (12.7 mm) 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 secondary 1/2" (12.7 mm) bead of sealant and spread flat. The seams should be covered 1" (25.4 mm) on either side of seam. All fastener/washers are covered with sealant stretching 1" (25.4 mm) over the washer edges.

**i** 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 Mixing Valve Flexi Collar and wedi Flexi Collar (for 1/2" – 3/4" [12.7–19 mm] shower pipe protrusions) are used for these applications and are part of the wedi System complete warranty.



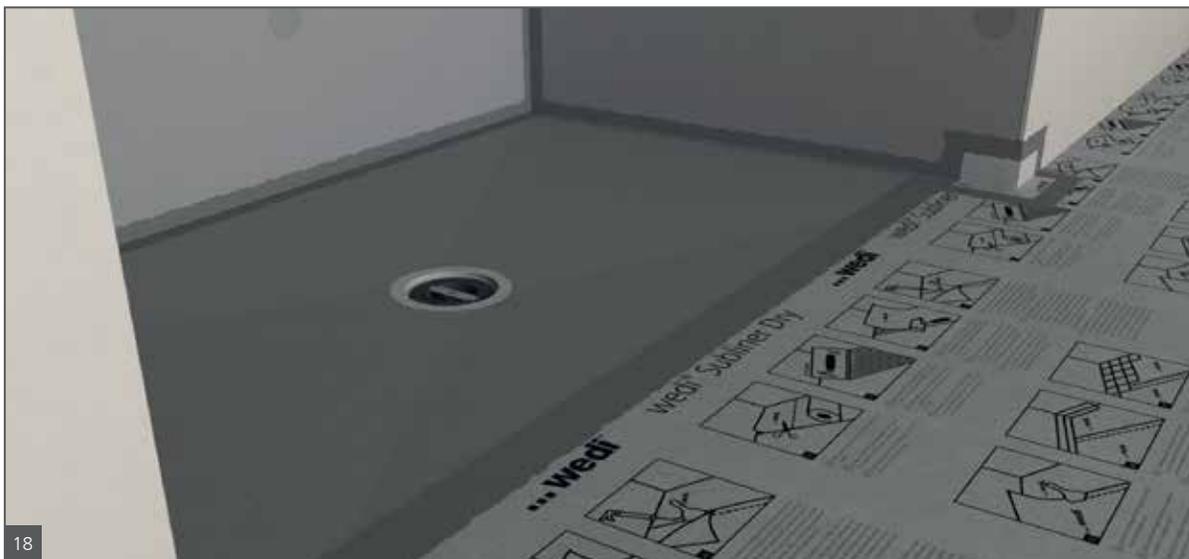
wedi Niches are installed in a cut out in the wedi wall and attached with its flange right into the center of 16" (406.4 mm) o.c. studs. wedi Joint Sealant is set along the connection of wall to niche.



2 Fasteners on each side of the niche are set to create a flush transition to the wall panels. Another 1/2" (12.7 mm) bead of wedi Joint Sealant is spread over fasteners and seams.



Fill unused Ligno perimeter channels by sealing in wedi Panel strips (included in box). Prepare to install wedi Subliner Dry waterproofing membrane over the subfloor outside the shower and reaching 4" (101.6 mm) into the Ligno and going up at walls at least 2" (50.8 mm) (flashing) by applying modified thinset using a 1/4 x 1/4" (6.4 x 6.4 mm) notch trowel. The area to be so waterproofed starts 4" (101.6 mm) into the Ligno and extends at minimum 3 ft. (914.4 mm) outside of the shower or as far as shower/spray water may reach. We recommend to waterproof the entire bathroom floor as water may spread below tile level and on top of waterproofing.



Apply a modified thinset (ANSI 118.4 or equivalent) across the wood or cement board floor surface and now apply wedi Subliner Dry Sheet waterproofing membrane overlapping into the Ligno base for 4" (101.6 mm). Apply wedi's prefabricated outside or inside sealing tape corners and sealing tape or Subliner Dry folds as a flashing to the wedi wall panels/Ligno and Subliner dry sheets as applicable. Install this waterproofing system over the floor substrate outside the shower. All areas subject to water splashes and spray must be waterproofed. wedi recommends to waterproof the entire bathroom floor (including a flashing up into the wall at least to the height of a regular base board or 2" [50.8 mm] high) in spaces where curbless showers are being installed.

Subliner Dry sheet waterproofing membranes are installed to the applicable surfaces using thinset mortar. All overlapping seams between Subliner Dry to wedi Fundo or Building Panel, and between Subliner Dry sheets are sealed with a full bed of wedi Sealant 620 for a width of 2" (50.8 mm). All Subliner Dry tape and prefabricated corner tapes are fully embedded and installed

using wedi Sealant 620. The wedi Sealant 620 can be installed once the thinset mortar below the membrane has cured (see also installation manual wedi Subliner Dry). Your shower is ready for tile once wedi Sealant 620 is dry to the touch. Alternatively to Subliner Dry sheet membrane system wedi Building Panels in 1/4" (6.4 mm) or 1/2" (12.7 mm) and 3/4" (19 mm) thickness (3/4" [19 mm] panel if no recess of base and base connected to wedi Panel with a Z notch connection in the panel connecting to Ligno base's channel) can be used as the floor tile underlayment in lieu of cement board and Subliner waterproofing. wedi Building Panel would be installed over wood floor subfloor and overlap and seal into the Ligno channel. In such application the Ligno base must be raised to allow its channel to fully stick out from the recessed area so wedi Floor Building Panels can be interlocked with its channel. All seams to wedi walls or Ligno base are sealed internally with wedi Joint Sealant, and are covered with an external 1/2" (12.7 mm) bead of wedi Joint Sealant spread flat. Your shower is ready for tiling once thinset under wedi Subliner Dry or wedi Building Panels on floor has cured.

## After Installation

All visible joints or seams in the installation are fully covered and reinforced with wedi Joint Sealant applied flat over the seams. Coverage of wedi Joint Sealant over all seams should be at least 1" (25.4 mm) on either side of the seam. The wedi Joint Sealant should be no less than 1/16" (1.6 mm) thick for strength. Do not add mesh tape into the wedi Joint Sealant. This may only put the waterproofing performance at risk and will not strengthen the sealants or systems resistance against movement related stresses. Once wedi Joint Sealant application over all shower system seams has been completed, an optional water flood test may be performed as early as 48-hours later. The test should not exceed 24 hours and nor should the water level exceed the height of the perimeter seams, including a temporary dam which should be installed at the entry and 1/2" (12.7 mm) high, so that the fresh sealant may continue to a full cure without too much weight added during that process. wedi recommends to test at least the drain connection for its proper seal while a full surface flood test is not technically required for non-absorbing products like wedi but may be required by a building inspection department.

When tiling commences, no premixed and organic ("mastic") tile adhesives must be used over wedi Systems in any wet area installation. When tiling the wedi Shower Bases incl. extensions or ramps, tile thickness should generally not be less than 1/8" (3.2 mm). Choose setting materials appropriate for the type of stone, ceramic or glass tile as well as for a wet area installation. Tile with a square size of 2 x 2" (50.8 x 50.8 mm) or more may be installed using a polymer modified cement based tile adhesive and grout. Tile with a square size of less than 2 x 2" (50.8 x 50.8 mm) as well as non-flat pebble stones with tile edges less than 2" (50.8 mm) may not be installed over the Fundo Ligno. All tile installations designed to receive heavier point loads such as from wheelchair use, must be grouted using 100% solids epoxy grout. 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 and so that such tile can always be fully supported by the tile adhesive setting bed and the surface of the wedi Base. Tile adhesive coverage under the tile must be 95% and special care must be taken to achieve good transfer of adhesive to wedi's shower base when working with mesh backed tile. Please use only solvent and acid free cleaners and sealers on tile and grout installed over wedi product and apply such products only in amounts as needed to treat the surface materials without drenching the substrate. Follow setting materials manufacturers recommendations and contact wedi with any questions or regarding applications not covered here.

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## wedi Drain Cover Assembly / Insertion

Insert cover frame into base hole (no glue/no screws). You may caulk between part and tile to create a flexible grout joint. Optional Extension Collar can be cut to height if part is needed. The caulk joint must not create a water barrier damming up the water draining through the thinset bed into the drain from below the tile. Therefore the thinset layer must be continuous toward the drain. Use the black plastic extension collar if you need to raise the wedi frame and cover. Cut extension collar to size and insert below the frame/cover. If not needed, the extension collar may be disposed of as it is not necessary for the functioning of the wedi installation.

