wedi Fundo Ligno

- Pre-sloped and internally waterproof Point drain shower base system for Floor- Even and Barrier- Free Entry Showers
- Eliminates cutting into Floor Joists when recessed. Sloped Shower Floor Base with only ¾" Profile/ Thickness
- Ready for tiling upon installation

General product description

Internally waterproof and pre-sloped shower floor base with factory integrated and specially reinforced, waterproofed point drain connection for fast track installations that eliminate the many different steps and products involved in traditional mortar bed or semi pre-fabricated sheet – or liquid membrane system installations . Fundo Ligno is primarily designed to provide a lightweight , yet sturdy, low profile shower floor base which allows recessing into a standard ¾" Plywood Subfloor construction without the need to cut into floor joists. Instead it will be installed over a ¾" Plywood subfloor lowered to a position even with the floor joists and this enjoys stable support. This allows for barrier free and floor even entry shower designs especially where ADA compliance in bathroom areas is required. Fundo Ligno can be customized in the field and cut to size fitting shower stalls smaller than the nominal size of the product. Fundo Ligno is available in select sizes featuring centered and drain options. The bases come with even perimeter thickness for easy recessing into subfloor construction while curbs can be used with Fundo Ligno as well. Fundo Ligno can be directly tiled over upon installation and can be used with all standard large format tile as well as tile as small as 2" x 2" . Standard cement or epoxy based setting materials can be used. Fundo Ligno is available with select drain cover options. Due to the precise slope fields of the Fundo Ligno, large or small format tile may be used. Within each slope field the tile will be fully supported over an even yet sloped surface. Where slope fields meet, grout lines should be designed when using tile larger than 4 " x 4" as these should not span across two slope fields.

Product features

- A ¾" profile thickness at the base's perimeter for a low floor structure build up opening up all options to recess the base into a subfloor and to meet up flush with flooring underlayments and waterproofing concepts of all make or design as used on surrounding bathroom floor areas.
- 100% waterproof due to its extruded polystyrene (closed cell) foam core
- 100% mold and mildew proof due to the product 's natural composition.
- Precisely pre-sloped and ready to tile surface made of reinforcing fiberglass mesh embedded in a heavy duty cement resin coating performing as a strong tile backing and strong enough surface to work on during system installation and prior to tiling
- High insulating properties due to its extruded polystyrene core giving tile or stone finish surfaces a warmer touch.
- Extremely lightweight due to its rigid foam core benefitting installations over older structures and the general handling on construction sites.
- Easy and clean to cut to size using a utility knife, circular saw or handsaw.
- Installation is extremely fast and safe due to the one piece shower base application. The product or installation requires no curing times allowing for a continuous installation process.
- Drain covers are height adjustable for a perfect finish with the tile selected
- Can be used with large and small format tile or stone
- No limitation to use of cement based thinset mortars and grouts. Product works perfectly with polyurethane or epoxy based grouts.

Areas of application

- New Construction of Residential/Commercial use buildings
- Renovation in Residential/Commercial use buildings
- For barrier free, ADA compliant or curbed installations
- For customized or standard tiled showers
- Over wooden or concrete substructures

Substrate/ Material Preparation and Requirements Before Installation

General Limitations / Requirements
(Concrete & Wood Subfloors) incl. all recessed subfloor constructions

- wedi Product Systems are only used for interior installations.
- Do not use as a wear surface or without tile / stone or other suitable coverings.
- Do not use organic mastic adhesives for setting tile on wedi systems in wet areas.
- Use only thinset mortar setting materials suitable for installation and adhesion to the specific substrate / subfloor type.
- Certain substrates must be primed prior to thinset mortar attachment.
- Do not use where substrate is subject to excessive moisture and moisture content changes.
- Do not use over substrates including, but not limited to: particle board, luan, asbestos, plank, bamboo, hardwood, chipboard, Sponge backed Vinyl Tile / Flooring, Laminates, Fiberglass based surfaces, Metal or Steel surfaces. Do not install over any dimensionally unstable surfaces.
- Consult wedi for questions regarding specific approved installations over substrates not listed here.
- Subfloors must be clean, even, sufficiently loadbearing and dry (cured).
- Residues, oil, waxes, grease or other contaminants acting as possible bond breakers must be removed.
- Deflection of all subfloor installations must not exceed L/360 for ceramic tile installations and L/720 for dimensional stone installations over wedi product. under consideration of live and dead loads measured between joists.
- Any leveling of the subfloor must be done prior to installing wedi product and tile. Subfloor maximum variation from plane must not exceed ¼" in 10 ft.
- wedi products should not be installed over bowl shaped, uneven structures.
- A wedi installation does not replace the need for Expansion and/ or Movement joint placement within a tile installation. Please follow recommendations
- found in the TCNA guidelines (Detail EJ171).
- All installations shall be in conformance with IRC for residential installations and IBC for commercial installations or applicable building codes in a region including the consideration of properly designed substrates and subfloors. All installations including the consideration of properly designed substrates and subfloors should be in compliance with current TCNA Handbook for Ceramic, Glass and Stone Tile Installation.
  wedi's technical recommendations supersede all requirements of IRC,IBC, IPC or TCNA where in conflict and exceeding minimum requirements established by the above mentioned institutions.
- Contact wedi for installation of tile or stone larger than 12 x 12 inches in size to learn more about the best practices and requirements applied in such applications. Follow tile manufacturers' recommendations for appropriate flooring tile choice, setting materials and installation techniques.

Installation over structural wooden surfaces – Flooring

- Where Fundo Ligno is recessed into a subfloor, and to finish flush with the surrounding bathroom plywood subfloor, a minimum ¾" Plywood subfloor is established over 2 x 6's joists properly attached to the side of the general floor joists. The 2 x 6's are installed ¾" lower than the top of the general floor joists. The ¾" plywood subfloor for Fundo Ligno is glued and screwed to the 2 x 6's supports. Along the perimeter of the Ligno base installation , cross bracing made of 2 x 6 's is installed under the plywood, and anywhere where the plywood subfloor shows a seam (support is centered under and along such seam).
- The cut out for the Fundo Ligno Drain Unit around the existing floor pipe must not exceed 6 1/2 " x 6 1/2" square. It must be reinforced from below if deflection in this area occurs which would exceed the L/360 maximum allowance.
- Plywood subfloor joist spacing must not exceed 16" o.c. with minimum thickness of T&G exterior grade plywood of 19/32 inch. Joist spacing in excess of 16" o.c. and up to 24: o.c. requires a double layer of ¾" Exterior Grade Plywood T&G subfloor sheets, glued and screwed.
- Plywood sheets must be installed with a 1/8" gap between sheets.
- Wood subfloors and structures attached to wooden subfloors must be kept dry and wood moisture content must be maintained at consistent service and use levels and must not exceed 15 %. Where constant moisture or vapor is present, ventilation must be installed to eliminate exposure of the wood structure from below the wedi product layer.

Installation over concrete /cement surfaces – Flooring

- Concrete slabs or other structural cement based substrates must be fully cured (at least 28 days but up to 3 months for new Portland cement based concrete or lightweight concrete under normal conditions, mix ratio and ambient climate). Field verification of full cure (see moisture level indicators below) is necessary to determine a full cure.
- Residual humidity must not exceed the following value per each floor type when setting wedi product and / or tile coverings:
  Calcium Sulphate Screeds: 0.5 %
  Calcium Sulphate Screeds, heated: 0.3 %
  Cement Screeds: 3.5 %
  Gypsum based underlayment: 1 % or per manufacturer recommendation
  Anhydrite Screeds: 0.5 %
  Conduct measures with CM device.
- Please note that wedi product systems might trap rising moisture during subfloor cure time or in general from un-isolated concrete ground floors not equipped with a vapor barrier.
- Concrete Subfloors must not be subject to hydrostatic water pressure.
- When recessing wedi Fundo Ligno into a concrete subfloor and a depression with the appropriate depth needs to be created please consider the structural impact of cutting into the concrete. In addition to the base's recess, a recess area for its drain must be provisioned for with a diameter of minimum 6 ½ " x 6 ½" x 1" deep.
- Existing cracks in subfloor must be filled and secured.
- Do not use over control and / or expansion joints subject to out-of plane movement or in- plane-movement.

Fundo Ligno Technical Properties

Fundo Ligno Shower Base Material	XPS/ Extruded Polystyrene Foam Core covered with fiberglass mesh fully embedded in a cement based resin coating
Surface Burning Characteristics; ASTM E84-04	Passed
Tensile Strength (Thinset Mortar to wedi Coating to Foam); ASTM C297	65 PSI
Shear Strength (Thinset Mortar to wedi Coating to Foam); within ANSI 118.10-1999; wet conditions	54 PSI
Waterproofness; ASTM D4068 and within ANSI 118.10-1999	Passes
Waterproofness of Assembled System; IAPMO PS 106-2015	Passes
Capillarity	0
Temperature Exposure Limits	-58°F to + 175°F
R- Value; ASTM C518	4.3hr ft. 2 F/Btu/in (R – value for 1 inch of wedi foam = 4.3
Robinson Floor Test; ASTM C627	Heavy Duty Commercial Use, Passes
Fungus & Bacteria Resistance	No Growth , Passes
Building & Plumbing Code Compliance	
2015,2012,and 2009 International Plumbing Code (IPC)	Compliant
2015,2012, and 2009 International Residential Code (IRC)	Compliant
2015,2012, and 2009 International Building Code (IBC)	Compliant
2010 and 2005 National Plumbing Code of Canada	Compliant
2012 and 2009 Uniform Plumbing Code (UPC)	Compliant
2012 and 2009 National Standard Plumbing Code (NSPC)	Compliant
ANSI 118.10-2008 Load – Bearing Bonded, Waterproof Membranes for Thinset Ceramic Tile and Dimension Stone Installations	Compliant
ASME A112.6.3-2001 (R07) Floor and Trench Drains	Compliant
IAPMO PS 46-2012 Field Fabricated Tiling Kits	Compliant

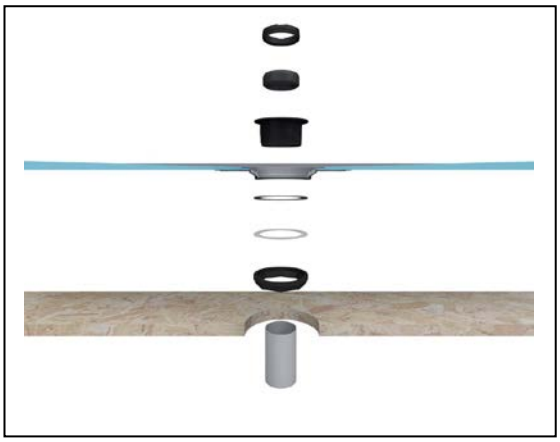
Building & Plumbing Code Compliance continued

IAPMO PS 106-2015 Tileable Shower Receptors and Shower Kits	Compliant
New York City Approval OTCR	Approved
City of L.A. Approval	Approved; Report No M-100017 in reference to ICC ES PMG 1189
Illinois State Approval IDPH	Approved
Michigan State Approval	Approved ; Report 1625-PA
Wisconsin State Approval	Approved, File 20130265
Massachusetts State Approval	Approved; P3-0315-306 &P3-0315-306
Worldwide Approvals Quality Management & Control	ISO 9001-2008
North- America Approvals Code Compliances & Quality Management	ICC ES PMG 1189

Drain Technical Properties

Factory integrated drain connection valve in shower base and field installed compression fit drain unit provided in each system. Drain stainless steel structure reinforced in drain area. Drain unit seals to all nominal 2" schedule 40 floor pipes made of ABS or PVC. Special sealing gaskets are available to seal to 2" or 1 ½" Cast Iron or Copper Pipe. Glue/ Cement Connection drain available in ABS for nominal 2" schedule 40 floor pipes.

Fundo Ligno Drain Material	ABS/ Stainless Steel Support
Code Compliance (International Plumbing Code/ IPC): ASME A112.18.2 (no liner/no bonding flange / no weepholes needed with wedi system)	Compliant (ICC PMG 1189)



Drain Covers Technical Properties

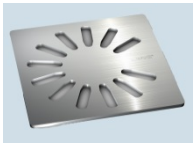
wedi Fundo Ligno Drain Covers (all options); nominal 4” x 4” square or round	Stainless Steel 304; Brushed
wedi Fundo Ligno Colored Covers (Oil Rubbed Bronze); nominal 4” x 4” square	Stainless St. 304; Powdercoated

The covers (except colored) are available in two variants: with ‘‘permanent’’ screw assembly or without (standard). They are height adjustable when using the optional plastic height extension/ riser provided in each unit to match tile installation height on shower base floor.

The Product Range

* Drain Covers for Ligno are same as for Fundo Primo

wedi Fundo Ligno Shower Base	**External Dimensions Width x Length x Height**	**Unit**	**Item #**
Fundo Ligno, floor base, with Center Point Drain	36” x 48” x 13/16”	1 pc	073732014
Fundo Ligno, floor base, with Center Point Drain	48” x 48” x 13/16”	1 pc	073732015
Fundo Ligno, floor base, with Center Point Drain	36” x 60” x 13/16”	1 pc	073732016
Fundo Ligno, floor base, with Center Point Drain	48” x 60” x 13/16”	1 pc	073732017
Fundo Ligno, floor base, with Off-Center Point Drain	60” x 60” x 13/16”	1 pc	073732018
Cover Standard and Drain Unit Sets	**Width x Length x Height (Cover)**	**Unit**	**Item #**
Fundo Ligno Standard Cover Set and Compression Fit Drain Unit (Included in Primo Unit)	3 ¾” x 3 ¾” x ¼”	1 pc	US1000003
Fundo Ligno Standard Cover Set and Glue Connection Fit Drain Unit	3 ¾” x 3 ¾” x ¼”	1 pc	US1000007
Fundo Ligno Standard Cover Set and Brass Compression Fit Drain Unit	3 ¾” x 3 ¾” x ¼”	1 pc	US1000004
Cover Sets Only	**Width x Length x Height (Cover)**	**Unit**	**Item #**
Fundo Ligno Standard Cover Set	3 ¾” x 3 ¾” x ¼”	1 pc	US1000009
Fundo Ligno Standard Cover Set Oil Rubbed Bronze	3 ¾” x 3 ¾” x ¼”	1 pc	US1000008

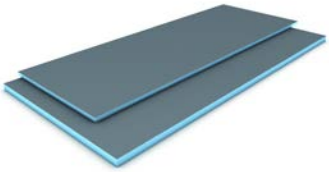
Fundo Fino Tileable Cover Set	3 ¾" x 3 ¾" x ¼"	1 pc	US1000020	
Fundo Fino Cover Set 1.1; Square (Daisy Design)	3 ¾" x 3 ¾" x ¼"	1 pc	US1000021	
Fundo Fino Cover Set 1.1.2; Round (Daisy Design)	4 ½" Ø	1 pc	US1000023	
Fundo Fino Cover Set 1.3; square /w. Screws (Daisy Design)	3 ¾" x 3 ¾" x ¼"	1 pc	US1000022	
Fundo Fino Cover Set 1.3.2; Round/w. Screws (Daisy Design)	4 ½" Ø	1 pc	US1000027	
Fundo Fino Cover Set 3.1; Square (Pebbles Design)	3 ¾" x 3 ¾" x ¼"	1 pc	US1000024	
Fundo Fino Cover Set 3.1.2; Round (Pebbles Design)	4 ½" Ø	1 pc	US1000026	
Fundo Fino Cover Set 3.3; square 4" x 4"/w. Screws (Daisy Design)	3 ¾" x 3 ¾" x ¼"	1 pc	US1000025	
Fundo Fino Cover Set 3.3.2; Round/w. Screws (Pebbles Design)	4 ½" Ø	1 pc	US1000028	
Drain Units Only & Accessories	**Width x Length x Height**	**Unit**	**Item #**	
wedi Fundo Compression Fit Drain Unit	For 2" Floor Pipe Schedule 40 ABS or PVC unless sealing gasket is changed t seal to different pipe (see optional sealing gaskets available)	1 pc	US1000012	
wedi Fundo Compression Fit Drain Unit Brass	For 2" Floor Pipe Schedule 40 ABS or PVC unless sealing gasket is changed t seal to different pipe (see optional sealing gaskets available)	1 pc	US1000011	
wedi Fundo Glue In Drain (ABS)	For 2 " Schedule 40 ABS floor pipe unless multipurpose cement is used	1 pc	US1000010	
wedi Caulking Gasket Cast Iron Pipe 2"	For 2" Floor Pipe Cast Iron	1 pc	US5000030	
wedi Caulking Gasket Copper Pipe 2"	For 2" Floor Pipe Copper	1 pc	US5000031	
wedi Tool: Wrench/ Caulking Nut Wrench	For faster/consistent installation of compression fit gaskets	1 pc	US5000032	

Scope of Delivery

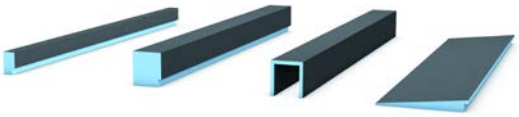
The wedi Fundo Primo Unit includes the Shower Base and the Drain Unit/ Drain Cover Assembly.

Complementary Products to build an entire wedi Primo Shower System

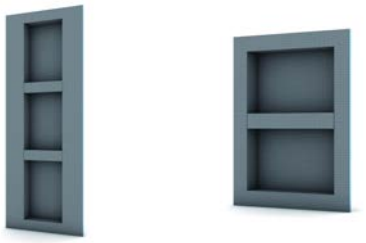
wedi Building Panel to provide a waterproof Tile Backer for the walls



wedi Curbs and Ramp



wedi Recess Niches to provide storage for Shampoo and Utensils



wedi Seats & Benches to upgrade Showers

wedi Installation Accessories: Sealants, Fasteners & Tools

Specialty Applications with wedi Fundo Ligno

- ## Extending wedi Fundo Ligno to size

  wedi offers no pre-sloped extension panels unlike with Fundo Primo. This is to maintain the Ligno's characteristic ¾" perimeter profile or thickness to match up with ¾" plywood subfloor sheets when recessed. However, if an extension of the shower area for a flat (not sloped) dry off area is desired, The Ligno should be installed on top of a subfloor and not recessed. A wedi Building Panel in ¾" thickness is then connected to the base's channel by field cutting a Z notch into the building panel connection area. The wedi Building Panel will serve as a waterproof extension of this area and provide an insulating tile backer underlayment as well. If a ¾" build up on the floor is too high, the Ligno may be recessed for only ¼ to ½ " and will stick out from the subfloor construction. Using the same technique as described for ¾" wedi Building Panels above, a wedi Buulding Panel in ¼" or ½" can then be used to extend the shower area (without slope) and provide the waterproofing and insulating tile backer underlayment.

- ## Cutting wedi Fundo Ligno to size

  wedi Fundo Ligno Shower Bases may be cut to size to make the fit a floor pipe location or the overall framed shower area. Cuts can be made in clean ways by simply using a circular saw, utility knife (thin profile makes this possible) or handsaw. When using a circular saw please make sure to use a carbide or diamond blade as you are cutting through the base's cement surface. Due to the sloped surface and design of the wedi slope we recommend to not cut off more than 6 inches of either side of the wedi Fundo Ligno bases. The perimeter on any size which is shortened will no longer match up to the height of a ¾" plywood subfloor sheet. Once cut to fit, the base perimeter's notch channel (Z notch) must be re-created and be ½" wide x 5/16" to 3/8" deep in dimension. Newly made channels should horizontally align with adjacent channels so it is recommended to mark the existing channels depth as the lowest cutting point/depth prior to using a straight edge and a utility knife to cleanly cut out the new channel by cutting horizontally into the base edge 1/2" deep. A utility knife with adjusted blade depth should be used to cut 5/16" to 3/8" deep into the base surface (½" away from edge of base). Note: Channels are only needed along sides of the Ligno base which will need to connect to other wedi parts such as wedi Building Panel.
  When measuring for the Fundo Ligno's fit into the shower area please start out by measuring from the existing floor pipe's center and from there to all walls (inside of framing) and the line at which the sloped shower base shall end at the entrance area of the shower- typically the drop into the recessed subfloor. Please make sure the Fundo Ligno base always fits in tightly and square against the length of all (framed or other) walls leaving only a maximum gap of 1/8" if unavoidable. This ensures a tight connection to wedi Building Panels and a proper support and (framed) wall backing of the transitional area from shower base into wall tile backer area.
  Try to avoid cutting wedi Fundo Ligno to fit into out of square installation areas. While you may be able to install the wedi shower system safely the procedure of making product work to attach to out of square areas and surfaces will continue into the finish tile installation, and the appearance of the finished work may suffer. It is recommended to square all areas before installation of the wedi system to provide a professional and efficient starting point for the entire installation.

Sustainability & Environmental Considerations

- wedi's product is rated by the International Panel on Climate Change (IPCC) with a Global Warming Potential of 1 (no negative impact considering its entire lifetime including its production process, its use in application and its ultimate disposal). wedi's extrusion agent is CO_2. No CFC as commonly used with foam extrusion is utilized.
- wedi refrains from using global warming halogenides, negatively impacting global warming and commonly found in foam products , in its wedi foam product.
- wedi's highly automated manufacturing facilities source electric power exclusively from energy sources producing renewable energy such as from water, wind, solar.
- All foam material waste occurring during the manufacturing processes is recycled and used to manufacture lightweight cement floor filler products.
- wedi polystyrene foam ingredients consist of recycled material at a rate of 25%.
- wedi's waterproof product systems protect wet room tile & stone installations against deterioration and mold due to water exposure damages and increase the average lifetime of wetroom installations such as showers , this conserving energy and material. The maintenance, cleanliness and added value to surfaces, air quality as well as general health of users is provided by the natural mold protection offered by wedi product.
- wedi product offers insulation properties and will help conserving energy when product is used on walls as well as on cold floor substrates and/ or with floor warming systems.

Warranty Information

Please refer to wedi's 10 year limited warranty on www.wedicorp.com. Please note that the International Plumbing Code requires a waterproof transition from waterproof shower base into the wall. This can be done by installing wedi's waterproof Building Panel (as the tile backer board) and wedi's waterproof curbs or , in the case of recessed flush floor installations, by using wedi sheet membrane Subliner Dry or wedi Building Panel to extend a waterproofing transition and extension from shower into the general bathroom area . The assembly and transitional seams have to be sealed with wedi joint sealant, a wedi engineered MS Polymer sealant and adhesive. Please note: There is no suitable alternative to wedi's joint sealant.

MasterFormat™ 2004 Sections

Section 09305 Tile Setting Materials and Accessories

Section 10185 Shower Compartments

Section 09300 Tile

Storage

Store flat, cool and not exposed to weather. Store in original , protective packaging.

Health & Safety information

Work appropriate work wear , gloves and safety glasses. Product contains cement. Please consult the wedi Material Safety Data Sheet (MSDS) "wedi Fundo" on www.wedicorp.com.

Installation of wedi Fundo Ligno Shower System

Assembly Instructions
wedi Fundo Ligno

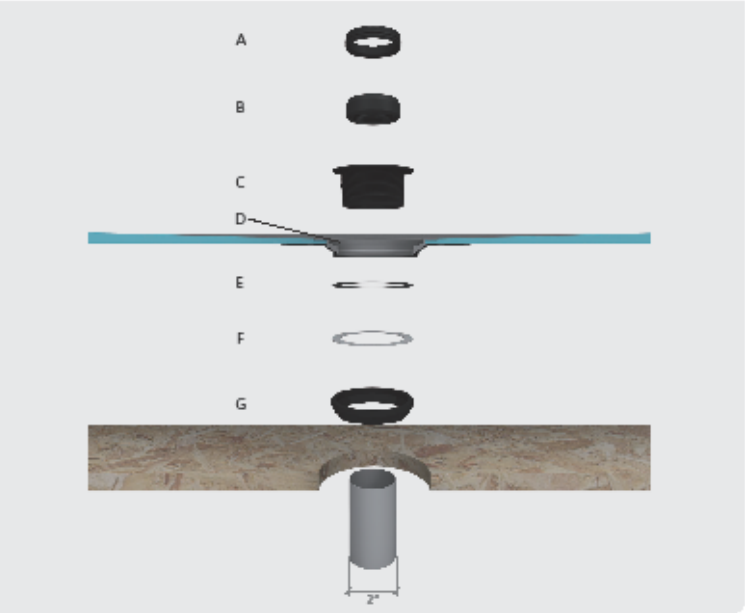
Drain to Base Assembly

Legend

A Caulking nut
B Rubber caulking gasket
C Drain body
D wedi sealant
E Rubber gasket
F Fiber gasket
G Locking nut

Optionally a glue drain can be obtained from wedi. For a cement glue connection, the floor pipe must be cut 2 7/8 inches 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.



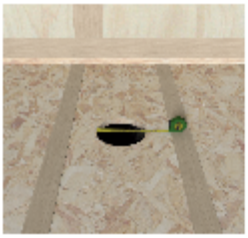
Tools

- Bucket
- Notch Trowel
- Drill with Thinset Mixer
- Utility Knife
- Straight Edge/T Square 5 ft or longer
- Speed Square
- Caulk Gun
- Handsaw
- Flat Head Screwdriver
- Screw gun
- Solid Putty Knife
- Paper Towels
- Level
- Circular Saw / Jigsaw
- Saw Horse
- Tape Measure
- Permanent Marker
- Extension Cord for Powertools
- Shop vacuum cleaner
- Inside Pipe Cutter

Before Installation

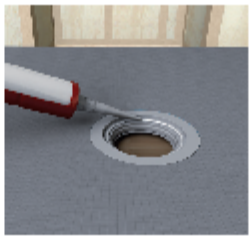
- Have 2x4 blocking installed between studs along the bottom perimeter of framing to back the bottom of wedi wall panels.
- Subfloor is sound, level and meets deflection criteria of maximum L/360"/as per IRC. Wooden or concrete structural substrates are dry and sufficiently loadbearing. Steel framing is sufficiently loadbearing.
- Floor joists not to exceed 16" o.c. Subfloor panels ¾" T&G EGP or equivalent.
- 2" ABS or PVC pipe is cut ⅝" below surface of recessed subfloor and is in the correct position with no floor joist in the way of drain installation (Ligno can be cut to fit which may result in an offcenter drain location)
- Cut a 6 1/2" diameter hole around the pipe center into subfloor to allow Ligno drain recess.
- 2" drain assembly below floor is stabilized and will not sink under water load.
- Only wedi products (Building Panels, Joint Sealant/Subliner Dry 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 contaminants.
- Where flush transition to floor the channel can be cut away or filled with thinset thinset mortar or a strip of wedi building panel sealed into channel.

Installation instructions wedi Fundo onto wooden or concrete floors

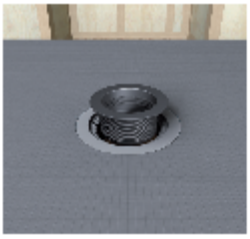


1 Cut ¾" Plywood base out fitting the space of Fundo Ligno. Safely install blocking along floor joists appr. ¾" below top of floor joists. Adjust for thinset thickness under wedi Ligno base and/or the flooring underlayment installation adjacent to shower area to create a flush transition for waterproofing and tile between floor and shower area. Re-install ¾" plywood over blocking to have the plywood flush with the floor joists and fill with furring strips on top of floor joists in case the blocking/joist that carry the plywood under wedi base is installed higher than ¾" deep from top of floor joists. Make sure the entire perimeter of the Ligno base is supported by floor joists or adequate blocking. Make sure the plywood base shows no seams where close to the cut out for the Ligno drain. The cutout around the center of the 2" floor pipe must be 6 ½" in diameter to allow drain recess. The pipe is cut square and even at ⅛" below the recessed subfloor top surface.

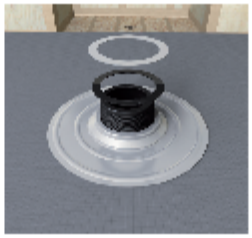
2 Assemble the drain unit following the instruction drawing.



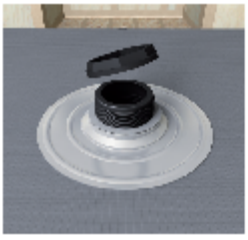
3 Set up a continuous ¼" bead of wedi sealant along the top side of the wedi Fundos' valve groove profile.



4 Drop the drain body firmly into the sealant.



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

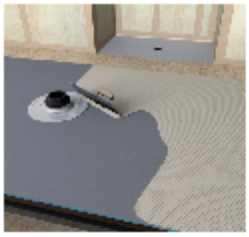


6 Tighten the gaskets firmly to the bases' steel ring using the locking nut. Make sure the drain body is still safely received in the valve-bead of sealant.

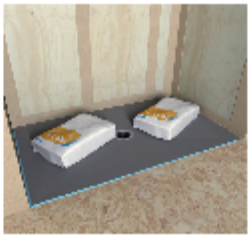
7 Skim coat the thinset ANSI 118.4 and comb through with a ¼" x ¼" notched trowel. Channels pointing to the entrance.

Assembly Instructions

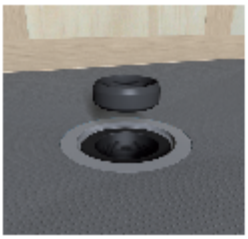
wedi Fundo Ligno



8 Trowel the thinset on the rear side of the Fundo again using a ¼" x ¼" notched trowel.

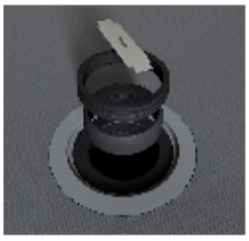


9 Press the Fundo firmly into the thinset bed, ensuring that the installation is level and void free. Apply some weight equally and for at least 30 minutes (thinset bags).

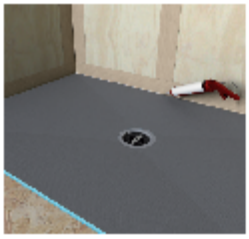


10 Set up the rubber caulking gasket (with the bevelled side up) around the 2" pipe in the subfloor. The rubber gasket must be flush with the upper end of the 2" ABS or PVC pipe.

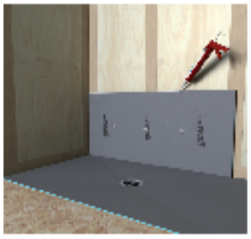
Do Not use any Lubricants.



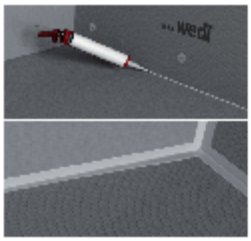
11 Tighten (squeeze) the rubber caulking gasket firmly with the caulking nut (use a flat headed screwdriver) and finally insert the plastic frame and strainer on top (without adhesive). The frame and strainer will be held in a grout joint only once tiling commences.



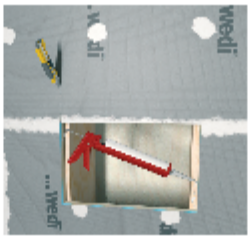
12 Set up a continuous ½" bead of wedi sealant along the pans channel on the outer perimeter and only in areas where you can immediately install a building panel into the fresh sealant.



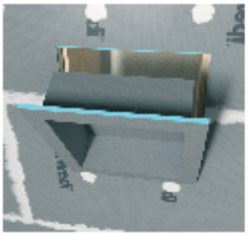
13 Push the wedi panel all the way into the channel of the shower base channel and its bead of sealant. Smooth out any pushed out sealant on inside seam using a putty knife. Fasten the panels directly to the studs starting 1 ft above the base and at a rate of 1 fastener per 1ft. One extra fastener is set into the seam to the next panel to crate a flush transition.



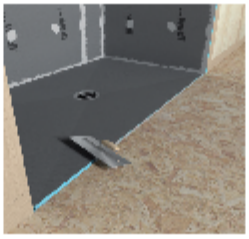
14 Apply continuous ½" beads of sealant between all connections of panels and install with thigthly butted seams. Excess sealant must be spread flat with a putty knife. All seams and fastener heads in the assembly are covered with a secondary ½" bead of sealant and spread flat. The seams should be covered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



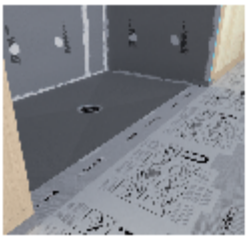
15 wedi Niches are installed in a cut out in the wedi wall and attached with it's flange right into the center of 16 o.c. studs. wedi joint sealant is set along the connection of wall to niche.



16 2 Fasteners each side of the niche are set to create a flush transition to the wall panels. Another ½" bead of wedi sealant is spread over fasteners and seams.



17 Apply thinset mortar over wood subfloor and reaching 4" into the Ligno shower base. Fill the Ligno channel with thinset or a strip of sealed on wedi building panel and apply thinset mortar to the lower corner of the wedi wall panels left and right of any entrance using ¼" x ¼" notch trowel.



18 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 inches. Apply wedi's prefabricated outside or inside sealing tape corners and sealing tape as a flashing to the wedi wall panels/Ligno and Subliner dry sheets as applicable. All seams and ends of the Subliner Dry sheets are covered with a ½" bead of wedi joint sealant and spread flat using a putty knife. Your shower is ready for tile once the thinset mortar has hardenedI Alternatively to Subliner Dry sheet membrane system wedi building panels in ¼" or ½" thickness can be used as the floor tile underlayment in lieu of cement board and Subliner waterproofing. wedi Building Panel would be installed over plywpod subfloor and overlap and seal into the Ligno channel. All seams to wedi walls or Ligno base are sealed internally with wedi joint sealant , and are covered with an external ½" 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

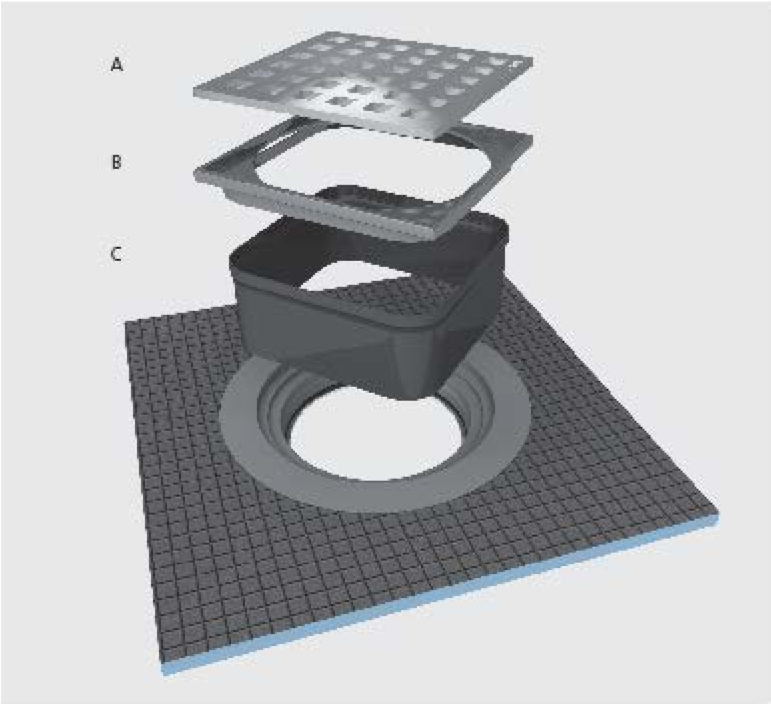
- Using a 2" drain plug, the wedi pressure fit drain/sealing gasket is water tested prior to ceramic tile installation.
- All bottom perimeter joints, Subliner joints and vertical joints are covered with wedi Joint Sealant. Coverage should be continuously visible for at least ¾" – 1" on either side of the seam.
- No mastic adhesives are used to install tile in the wedi system. Minimum tile size is 2" x 2" x ¼" thick.
- Large format tile can be used on wedi Fundo bases. The tiles must be cut where the slope fields meet.

- Where wedi building panels are installed over horizontal surfaces (seats, tubdeck transitions) do not set any fasteners and do not allow the glass door track installation to penetrate the wedi panel or Subliner 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.
- 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. Utilize a wedi sealing tape in addition to regular sealing for safety.

wedi Drain Cover Assembly/Insertion

Legend

A wedi Strainer
B Strainer Collar
C Optional Extension Collar



Insert Strainer Collar into base hole (no glue/no screws). Caulk between part and tile to create a flexible grout joint. 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. Therefore the thinset layer must be continuous toward the drain.

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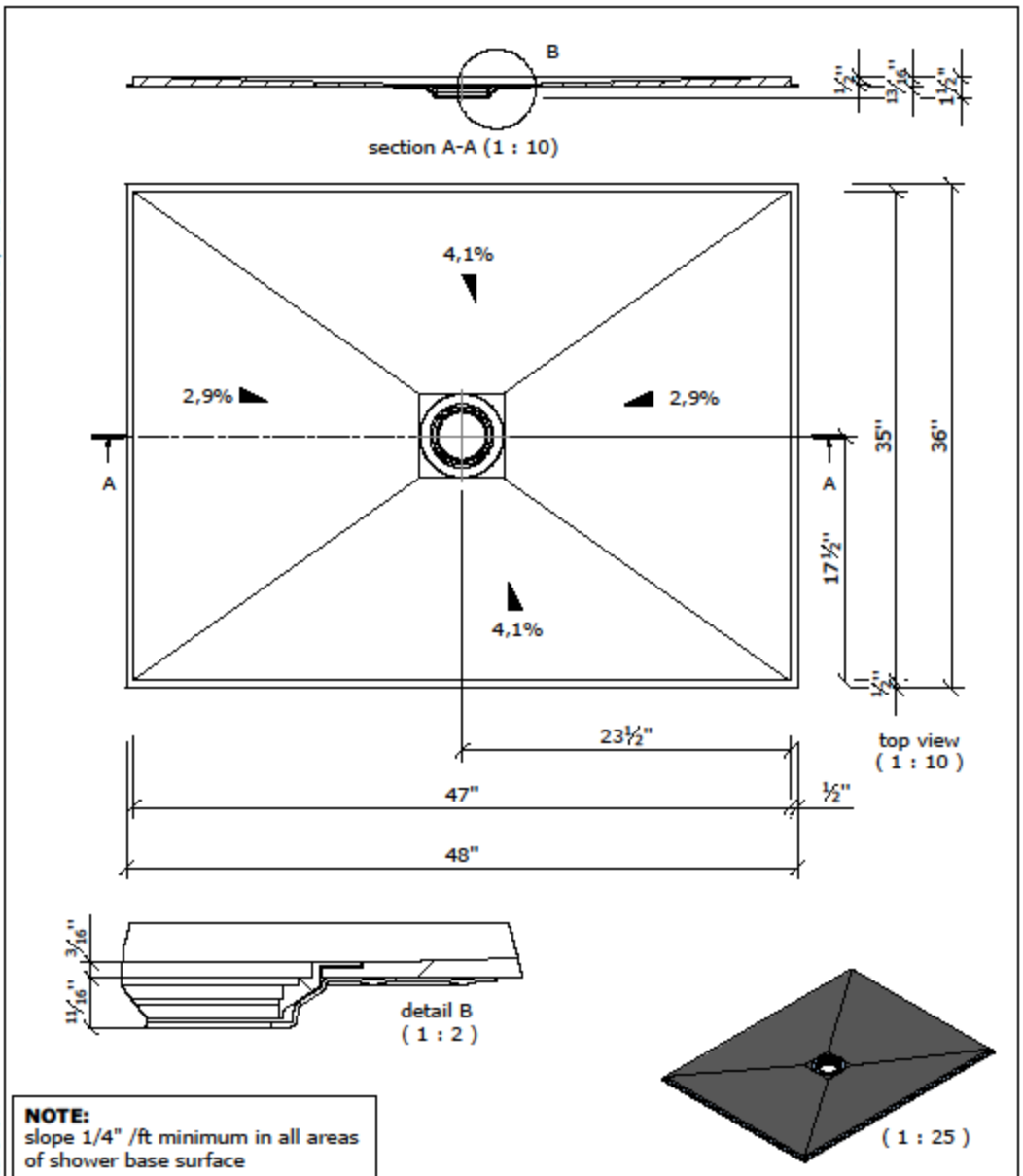
Additional Best Practices / Tips when installing wedi Fundo Primo

- **A formidable alternative to installing wedi Subliner Dry Sheet Membrane over plywood or ¼" cement board over plywood to create the floor tile underlayment and waterproofing that reaches into the recessed Fundo Ligno base, is to use wedi Building Panel in ¼" or ½" instead of cement board and sheet membrane. This would require the recess for Fundo Ligno base is first set at ¾" deep by lowering the ¾" plywood to provide the structural support. However, a ¼" plywood is now added back on top of the plywood to decrease the depth of the recess to ½" (this secondary ¼" layer of plywood can be substituted by ¼" wedi Building Panel). The Ligno is now installed and its perimeter channel will stick out from the recess. Wedi Building Panels in ¼" or ½" can now be installed as the sole, waterproof tile backer underlayment over the general bathroom floor. The wedi Building Panels connect into the Ligno channels. This connection is sealed with wedi Joint Sealant. The wedi Building Panel would replace the cost of cement board, sheet membrane and two layers of thinset application. Labor savings would be extreme.**
- **Seal all openings in your wedi wall building panels (shower valves/shower head pipes) as water in the thinset layer below the tile may escape through those openings inflicting damage to framing.**

Technical Drawings



NOTE:
slope 1/4" /ft minimum in all areas of shower base surface

Z 00 00 63 02
Kunde/ client : - - -
BV/ BP : - - -

Benennung/ designation
wedi Fundo Ligno USA
Art.: 07-37-32/014

	Datum date	Name name
3D drawn	17.12.2014	ds
2D drawn	17.12.2014	ds
CAD/CAM Progr.		

Fertigungszustand/ Bautoleranzen: finished condition/ tolerances: nach DIN 18202

Ausg. issue	Änderung modification	Datum date	Name name

Maße in Zoll dimensions in inch | DIN A4

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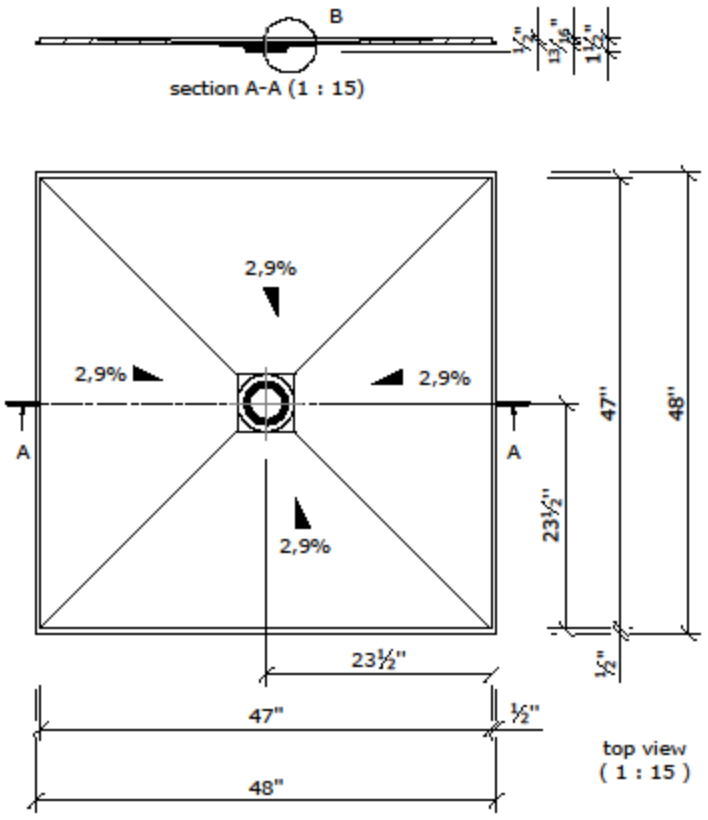

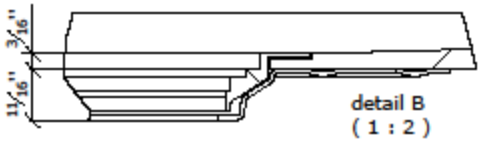

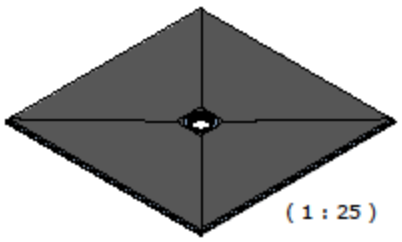

NOTE:
slope 1/4" /ft minimum in all areas of shower base surface

Z 00 00 63 03
Kunde/ client : - - -
BV/ BP : - - -

Benennung/ designation
wedi Fundo Ligno USA
Art.: 07-37-32/015

	Datum date	Name name
3D drawn	17.12.2014	ds
2D drawn	17.12.2014	ds
CAD/CAM Progr.		

Fertigungszustand/ Bautoleranzen: finished condition/ tolerances: nach DIN 18202

Ausg. issue	Änderung modification	Datum date	Name name

Maße in Zoll dimensions in inch | DIN A4

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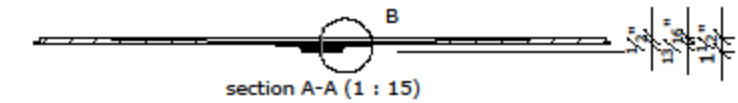
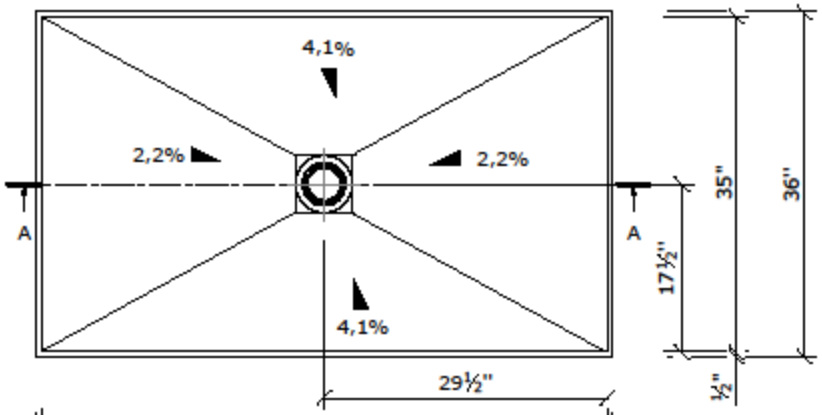
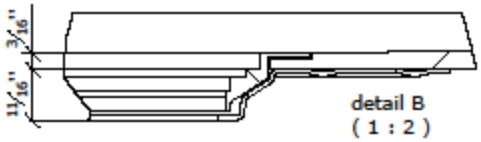


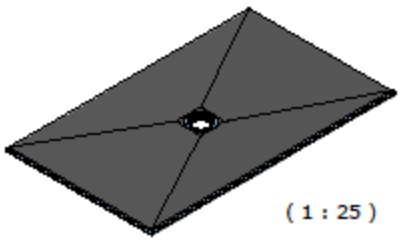
section A-A (1 : 15)



top view
(1 : 15)



detail B
(1 : 2)



(1 : 25)

NOTE:
slope 1/4" /ft minimum in all areas of shower base surface

Z 00 00 63 04
Kunde/ client : - - -
BV/ BP : - - -

Benennung/ designation

wedi Fundo Ligno USA

Art.: 07-37-32/016

	Datum date	Name name
3D drawn	17.12.2014	ds
2D drawn	17.12.2014	ds
CAD/CAM Progr.		

Fertigungszustand/ Bautoleranzen: finished condition/ tolerances: nach DIN 18202

Ausg. issue	Änderung modification	Datum date	Name name

Maße in Zoll dimensions in inch | DIN A4

filename: 073732016_Fertigteil.iam

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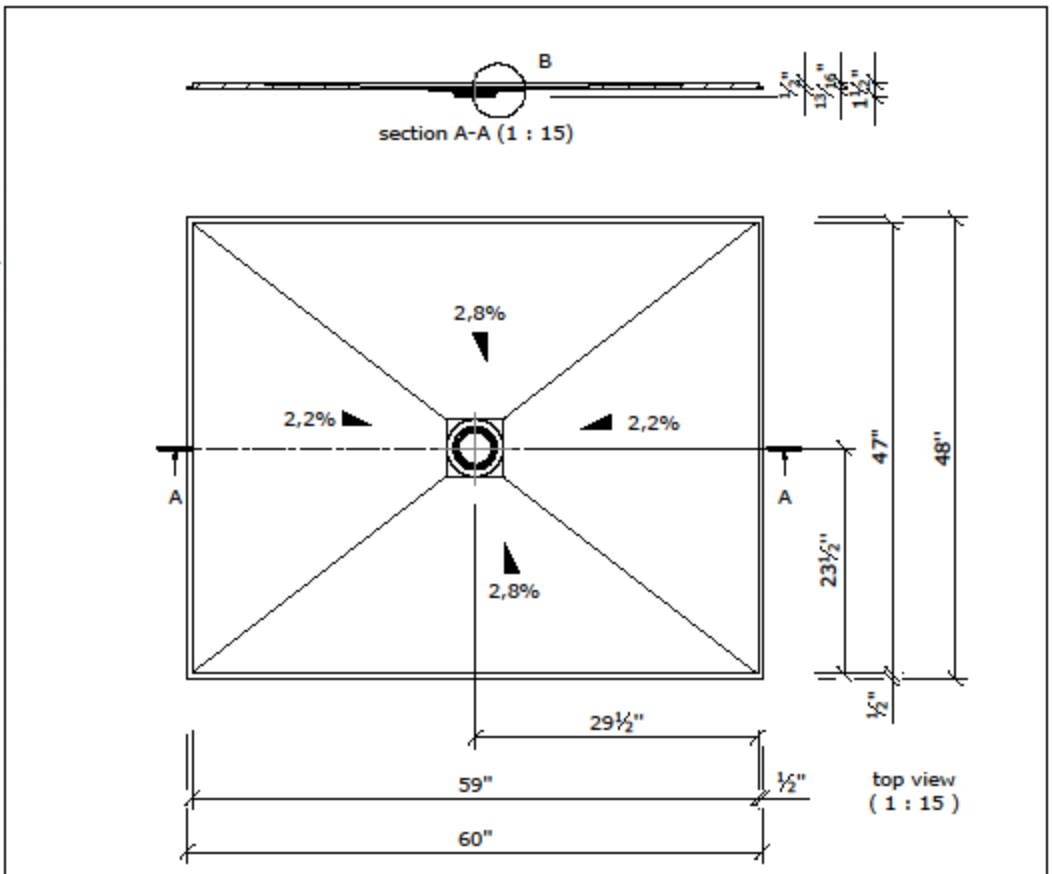

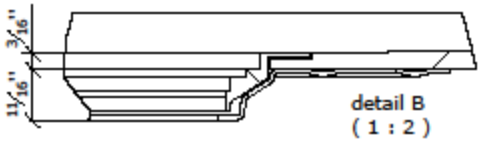

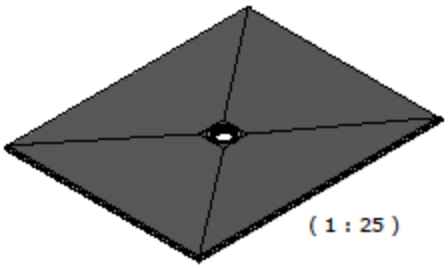

NOTE:
slope 1/4" /ft minimum in all areas of shower base surface

Z 00 00 63 05
Kunde/ client : - - -
BV/ BP : - - -

Benennung/ designation
wedi Fundo Ligno USA
Art.: 07-37-32/017

	Datum date	Name name
3D drawn	17.12.2014	ds
2D drawn	17.12.2014	ds
CAD/CAM Progr.		

Fertigungszustand/ Bautoleranzen: finished condition/ tolerances: nach DIN 18202

Ausg. issue	Änderung modification	Datum date	Name name

Maße in Zoll dimensions in inch | DIN A4

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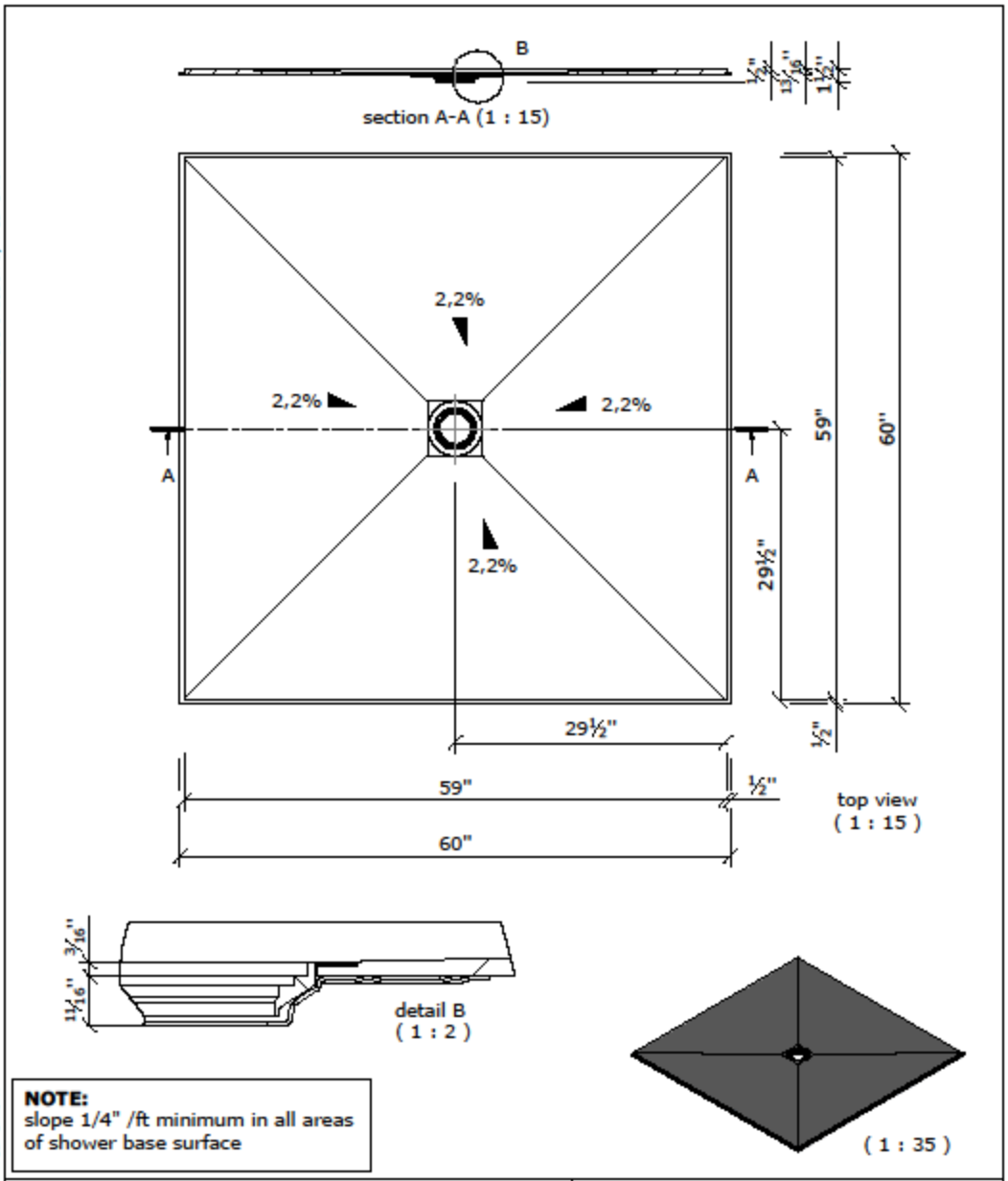

NOTE:
slope 1/4" /ft minimum in all areas of shower base surface

Z 00 00 64 24
Kunde/ client : - - -
BV/ BP : - - -

Benennung/ designation

wedi Fundo Ligno USA

Art.: 07-37-32/018

	Datum date	Name name
3D drawn	06.05.2015	ds
2D drawn	06.05.2015	ds
CAD/CAM Progr.		

Fertigungszustand/ Bautoleranzen: finished condition/ tolerances: nach DIN 18202

Ausg. issue	Änderung modification	Datum date	Name name

Maße in Zoll dimensions in inch | DIN A4

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