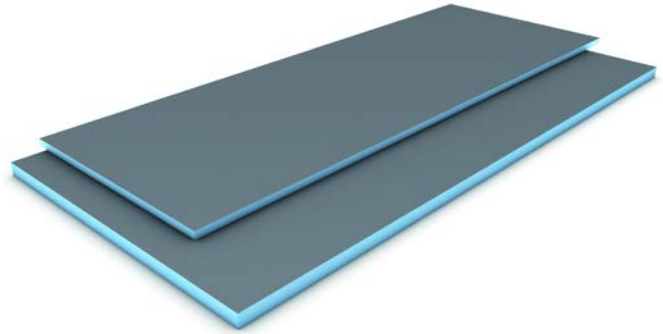


wedi Building Panel

- Internally waterproof and mold-proof Tile Backer made of Rigid Extruded Polystyrene
- High Durability Tile Backer due to dual – sided mesh reinforcement embedded in cement base resin coating
- Ready for tiling upon installation
- For vertical and horizontal tile and stone installations



General product description

Available in a wide variety of thicknesses and sizes, wedi Building Panels are compatible with virtually any stable substructure. wedi Building Panels are lightweight, internally waterproof and dimensionally stable, making them fast, clean and simple to work with. The blue waterproof core is CFC-free, made from waterproof extruded polystyrene foam, reinforced with fiberglass mesh on both sides and coated with synthetic polymer resin mortar which fully embeds the mesh layer resulting in the panel's strength and the ability to develop highest adhesion strength to virtually any type of thinset mortar. The embedded mesh eliminates the risk of delamination of installation layers.

The wedi Building Panel combines the benefits of the latest manufacturing technology and material quality with sound and traditional benefits our trades enjoy.

The wedi Building Panel can be tiled with all types of ceramic, glass or stone tile whether they are mosaic or large format tiles. Especially large and thin tile benefits of the durability of the wedi Building Panel and the even surface it provides.

Areas of application

- New Construction of Residential/Commercial use buildings
- Renovation in Residential/Commercial use buildings
- Wet areas such as showers and steam baths
- Over wooden or concrete substructure

Product features

- 100% waterproof due to its extruded polystyrene (closed cell) foam core
- 100% mold and mildew proof due to the product 's natural composition.
- Strong and ready to tile surface made of reinforcing fiberglass mesh fully embedded in a cement based resin coating.
- 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 fast and safe handling on construction sites.
- Easy and clean to cut to size using a utility knife.
- No limitation to use of tile sizes or the type of tile
- No limitation to use of cement based thinset mortars and grouts. Product works perfectly with polyurethane or epoxy based grouts.
- Replaces cement boards plus the added waterproof membranes.
- Available in multiple sizes and thicknesses for use as floor underlayment, wall and ceiling backer board, over countertops, tub decks, and for building seats or tileable furniture without need for any support made of wood or steel.

Substrate/ Material Preparation and Requirements Before Installation

General Limitations / Requirements (Concrete & Wood Subfloors)

- 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 smaller than 2" x 2" and 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

- 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.
- Please note that wooden constructions such as for tub or shower seat supports have to be designed to meet general stability criteria normally considered for flooring applications including permissible deflection.
- 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.
- 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.

General Limitations / Requirements (Wall Applications)

- 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 wall surface.
- Certain substrates such as gypsum based wall boards must be primed prior to thinset mortar attachment if wedi Building Panel is installed over such existing boards.
- Do not use where framing or wall surfaces are subject to excessive moisture and moisture content changes.
- Residues, oil, waxes, grease or other contaminants acting as possible bond breakers must be removed from wall surfaces prior to installation.
- Do not use over substrates including, but not limited to: sheet wood surfaces, Vinyl tile, glazed tile, Metal or Steel surfaces.
Consult wedi for questions regarding specific approved installations over substrates not listed here.
- Any leveling of suitable surfaces/ walls must be done prior to installing wedi product and tile.
- All wall surfaces and their substrate including framing must be sufficiently load-bearing, plumb and square.
- 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 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 tile choice, setting materials and installation techniques.
- Please consider using appropriate setting materials and techniques when installing transparent tile
- Setting materials, when applied over waterproof wedi Building Panel, and below tile with low water absorption, must be allowed sufficient time to cure prior to grouting and/ or water exposure such as in shower installations. Consult setting material manufacturer to obtain individual cure and setting time requirements.

Installation over Wood Framing (walls)

- wedi Building Panels in minimum thickness of 1/2" can be installed directly to 2 x 4 framing with stud depth of 3 1/2" and with studs placed 16" o.c..
- wedi Building Panels in minimum thickness of 1" can be installed directly to 2 x 4 framing with stud depth of 3 1/2" and with studs placed 19.1" o.c..
- Ensure framing is plumb, square and loadbearing.
- Only wedi washers and fasteners are used for the installation with washers placed one for every 12 inches of framing and one extra washer in every panel seam and transition to another wedi panel.
- All vertical wedi Building Panel seams and edges have to be fully supported by adequate framing.

Installation over Steel Framing (walls)

- wedi Building Panels in minimum thickness of 1/2" can be installed directly to minimum 20 gauge steel framing and with studs placed 16" o.c..
- Ensure framing is plumb, square and loadbearing.
- Only wedi washers and self-tapping fasteners are used for the installation with washers placed one for every 12 inches of framing and one extra washer in every panel seam and transition to another wedi panel.
- All vertical wedi Building Panel seams and edges have to be fully supported by adequate framing.

Installation over Drywall Surfaces (walls)

- Absorbing gypsum based drywall backer board walls must be primed prior to thinset attachment and wedi Building Panel installation. Exempt are such gypsum based drywall products which are laminated with non-absorbing surfaces.
- All drywall assemblies must be taped in seam areas.

Installation over Cement Board Surfaces (walls)

- All cement board surfaces should be wiped over with a damp sponge to remove loose particles and dust as well as prohibit excessive loss of water from thinset application to cement backer unit.
- All cement Board assemblies must be taped in seam areas.

Installation over existing, older tile surfaces or brick/ block walls (walls)

- Tile must be tested for firm adhesion across entire surface prior to installing new product including wedi Building Panel and tile. Ensure the substrate and old tile assembly is sufficiently load-bearing and can support the added application of wedi Building Panel and tile.
- Loose tile should be removed and area patched.
- Adhesion performance of thinset mortar to old tile must be verified in field and with manufacturer of thinset adhesive product.
- A skimcoat of thinset mortar should be applied over the surface to eliminate low spots in the area of grout lines.

wedi Building Panel Technical Properties

wedi Building Panel Material Composition	XPS/ Extruded Polystyrene Foam Core covered with fiberglass mesh fully embedded in a cement based resin coating
Surface Burning Characteristics; ASTM E84-04 and UL 1715	Passes
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
Flexural Strength; ASTM C947	627 PSI
Linear Variation; ASTM 1037-39 (AC159)	Passes / less than 0.074%
wedi Fastener Pull Through Strength; ASTM C 473	Wet 131.8 PSI/ Dry 196.2 PSI
Accelerated Aging Test; AC71-25 Cycles	No Disintegration
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 *with 8" x 8" x ¼" Porcelain Tile	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
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
ICC-ES EG 159; Evaluation Guideline for Composite Backer Board	Compliant
ICC-ES AC71; Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water Resistive Barriers	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

The Product Range

wedi Building Panel	Dimensions Width x Length x Thickness	Unit	Units on Pallet	Weight per piece	Item #
wedi Building Panel	2 x 4 ft. x 1/8" (600x1250x4 mm)	1 pc	136	6 lbs	010000004
wedi Building Panel	3 x 5 ft. x 1/4"	1 pc	50	8 lbs	010718006
wedi Building Panel	3 x 5 ft. x 1/2"	1 pc	50	8.7 lbs	010717064
wedi Building Panel	3 x 5 ft. x 1/2" (palletized 25 ct)	1 pc	25	8.7 lbs	010717164
wedi Building Panel	3 x 5 ft. x 5/8"	1 pc	50	9 lbs	010716316
wedi Building Panel	2 x 8 ft. x 3/4" (600x2500x20 mm)	1 pc	50	11 lbs	010000020
wedi Building Panel	2 x 8 ft. x 1" (600x2500x25.4 mm)	1 pc	56	13 lbs	010719325
wedi Building Panel	2 x 8 ft. x 1 1/4" (600x2500x30 mm)	1 pc	36	14 lbs	010000030
wedi Building Panel	2 x 8 ft. x 1 1/2" (600x2500x40 mm)	1 pc	36	14.4 lbs	010000040
wedi Building Panel	2 x 8 ft. x 2" (600x2500x50 mm)	1 pc	24	15 lbs	010000050
wedi Building Panel	2 x 8 ft. x 3 1/4" (600x2500x80 mm)	1 pc	12	18.5 lbs	010000080
wedi Building Panel	2 x 8 ft. x 4" (600x2500x100 mm)	1 pc	12	20.6 lbs	010000100
wedi Building Panel	3 x 8 ft. x 1/2" (900x2600x12.7 mm)	1 pc	26	18 lbs	010000912
wedi Building Panel	4 x 8 ft. x 1/2" (1200x2500x12.7 mm)	1 pc	26	23 lbs	010001612
wedi Building Panel	4 x 8 ft. x 2" (1200x2500x50 mm)	1 pc	12	29 lbs	010001250
Installation Accessories	Specifications	Unit	Box unit		Item #
wedi Tab Washer	Heavy gauge galvalume coated steel 1 1/4" Ø	1 pc.	100 ct.		US5000014
wedi Tab Washer	Heavy gauge galvalume coated steel 1 1/4" Ø	1 pc.	1000 ct.		US5000009
wedi Tabless Washer	Heavy gauge galvalume coated steel 1 1/4" Ø	1 pc.	100 ct.		US5000015
wedi wood screws	# 7 ga. HiLo Phillips Head; coated; 1 5/8" Length	1 pc.	100 ct.		US5000016
wedi wood screws	# 7 ga. HiLo Phillips Head; coated; 1 5/8" Length	1 pc.	1000 ct.		US5000012
wedi wood screws (Canada)	# 7 ga. HiLo Phillips Head; coated; 1 5/8" Length	1 pc.	100 ct.		US5000017
wedi Self Tapping Screws	#6 ga. Steel; coated; Phillips Head; 1 1/4" Length	1 pc.	100 ct.		US5000018
wedi Selftapping Screws	#6 ga. Steel ; coated; Phillips Head; 2 1/2" Length	1 pc.	100 ct.		US5000049
wedi Joint Sealant	10.5 oz plastic cartridge	1 pc.	12 pcs./box		US5000013
wedi Joint Sealant	20 oz. aluminum foil sausage	1 pc.	20 pcs./box		US5000010
wedi Joint Sealant Gun	Aluminum tube / chrom.steel spring / PVC	1 pc.	1 pc. /box		US5000019
wedi Joint Sealant Gun Replacement Tips	PVC	1 pc.	1 pc./bag		US5000020
wedi Sealing Tape	Subliner fleece laminated polyethylene; 5" x 32.8 ft	1 pc.	1 roll/bag		US5000002
wedi Sealing Tape Inside Corner	Subliner fleece laminated polyethylene; 4 3/4" x 2 1/2" x 2 arms	1 pc.	2 pcs./bag		US5000007
wedi Sealing Tape Outside Corner	Subliner fleece laminated polyethylene; 4 1/2" x 2 1/2" x 2 arms	1 pc.	2 pcs./bag		US5000008
wedi Flexi Collar Plumbing Pipe Sealing Collar	Subliner fleece laminated polyethylene with rubber seal opening; 4 3/4" x 4 3/4"	1 pc.	1 pc./bag		US5000033
wedi Reinforcing Mesh Tape	Alkali resistant fiberglass; self-adhesive; 5" x 82 ft.	1 pc.	1 roll/bag		095225053
wedi Reinforcing Mesh Tape	Alkali resistant fiberglass; self-adhesive; 24" x 164 ft.	1 pc.	1 roll/bag		095215052

The wedi Tub & Shower Surround Kit

The wedi Building Panel is available as a fully equipped Kit including 5 pieces of wedi Building Panel in 3 x 5 ft x 1/2", 5 units of wedi Joint Sealant and 100 each of the wedi tab washers and wood screws. This Kit fits common installation needs in tub and shower surround applications and may provide, depending on shower/tub framed stall layout up to 75 sqft of waterproof wall surface. Fully waterproofing the wall areas including all seams.

Order Information

wedi Tub & Shower Surround Kit	Dimensions / Box	Unit	Item #
Wedi Tub & Shower Surround Kit	38" x 62" x 6"	1 pc	US4000001



Scope of Delivery

The wedi Building Panel is delivered flat and on a pallet and shrink-wrapped and includes corner protection units. The Tub & Shower Surround Kit is delivered flat in a cardboard box including all accessories.

Complementary Products to use with wedi Building Panel

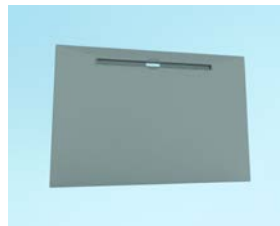
wedi Fundo Primo



wedi Fundo Ligno



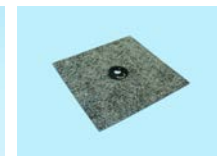
wedi Fundo Riolito



wedi Fundo OneStep



wedi Installation Accessories: Sealants, Fasteners & Tools



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 CO₂. 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 wedi Building Panels are often installed in shower and steam shower installations subject to the International Plumbing Code which requires a waterproof transition from waterproof shower base into the wall. It also requires all shower walls to be waterproofed (this cannot be achieved by installing tile, as its assembly will include grout joints and remain open to water migration. Cement boards are also not used to waterproof shower walls as they are water resistant and need to be waterproofed). The waterproof transition from shower floors to walls and the waterproofing of the walls can be done by simply installing wedi's waterproof Building Panel (as the tile backer board and waterproofing) and, for example, wedi's waterproof curbs. 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

Section 07100 Damp-proofing & Waterproofing

Section 09260 Gypsum Board Assemblies

Section 09252 Cementitious Backer Boards

Storage

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

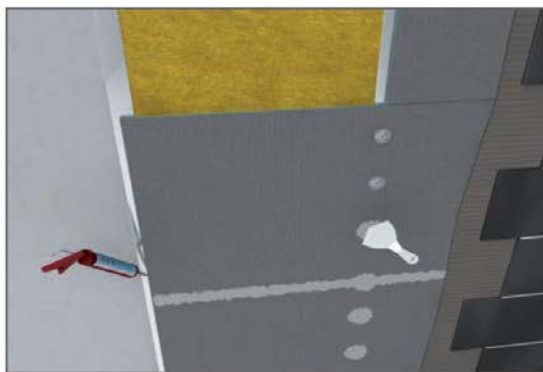
Health & Safety information

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

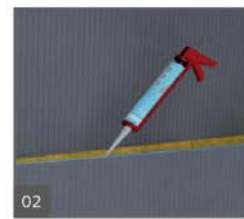
Information about finishing and application options for wedi products, technical recommendations or advice and other information provided by our employees (technical usage advice) is accurate to the best of our knowledge, but is non-binding and is given with the exclusion of any liability. It does not exempt our customers and their buyers from carrying out their own checks and trials on the suitability of the products for the intended processes and purposes.

Installation of wedi Building Panel

Shower Walls and Wet Areas



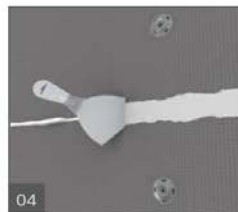
01 Using only a utility knife, wedi Building Panel is effortlessly cut and shaped.



02 A continuous 1/2" bead of wedi Joint Sealant is applied on the foam edges of a wedi Building Panel before another panel is joined by butting tightly.



03 Apply 1 wedi fastener per every 12", with an extra fastener applied directly in the seam to provide a flush transition between panels. On a ceiling, apply 1 wedi fastener per every 6". The washer heads are dimpled below the surface of the wedi Building Panel so a flat surface is maintained.



04 All excess wedi sealant is spread flat over all joints using a putty knife. Where needed, an extra bead of sealant is applied on top of the joints and spread flat. The joints should be covered a full 3/4" – 1" on both sides of the seam. Especially wedi joint sealant provides little build up making for square and tight corner areas perfect for tiling. All fastener locations are waterproofed using wedi Joint Sealant spread flat and widely over each washer.



05 Alternatively, wedi sealing tape can be used instead of the wedi Joint Sealant and applied in modified thinset. The sealing tape provides adequate splash water protection but should not be used where standing water occurs because thinset might allow pressing water to migrate underneath the sealing tape through the thinset mortar. If you use wedi Building Panels with wedi Shower Bases, wedi Joint Sealant must be used in between seams and on top of seams. No sealing tape is required in these applications. Please consider: sealing tape is installed in cement based thinset and can allow pressing water to migrate under the tape. The thinset holding the tape can also not provide protection against movement. Both challenges are addressed more efficiently by using wedi Joint Sealant. In dry areas, the seams can be treated with an alkali resistant fiberglass mesh tape by wedi.

Direct Attachment to Framework – walls or ceiling



- 1/2", 5/8" or 1" Building Panels are the recommended minimum thicknesses for installation to framing
 - Wood Framing: 2 x 4's (framing depth 3 1/2 inches) , Maximum stud spacing 16 inches o.c.
 - Metal Framing: Minimum 20 gauge metal studs with maximum 16 inches o.c. spacing
 - wedi 1" Building Panel or thicker can be used over 19.1" o.c. spaced wall framing
 - 2" wedi alkali resistant fiberglass mesh tape to be applied over all seams in dry areas. wedi waterproof Joint Sealant or wedi Sealing Tape to be applied over all seams and fastener locations heads if a waterproof installation is required
 - Attach wedi building panels with one fastener per every twelve inches and in between adjacent panels (seams) over wall framing
 - On ceilings, use one fastener per every 6 inches and in between adjacent panels (seams)
 - See the wedi Building Panel TDS for more detailed installation instructions by application on wedicorp.com
 - wedi Joint Sealant or wedi Subliner Sealing Collars are used where plumbing protrusions must be sealed
- !** Do not use mastic adhesives for setting tile over wedi product surfaces in wet area applications.

Suspended Ceiling Installations



Besides wall and floor applications, the versatile wedi Building Panel can also be used for leveling and suspension of ceilings. Suspension height can be individually set during installation. For areas that require a fire barrier, additional backing material may need to be considered.

wedi installation requirements:

- Framing must be loadbearing and metal stud gauge chosen accordingly
- stud spacing not to exceed 16" o.c.
- On metal studs we recommend to use wedi Joint Sealant to adhere the panels next to using selftapping wedi Screws and Washers



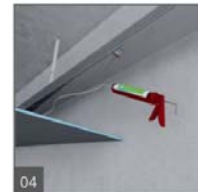
01
Install the ceiling suspension systems to the existing ceiling by using dowels and set the desired suspension height.



02
Install the corresponding profiles onto the already installed support.



03
Screw wedi Building Panels to framework using ei and Washers (wooden frame) or wedi Self Tappii (steel framework). The fastener pattern is 1 faste Make sure to always use washers/fasteners in smooth transitions.



04
When installing wedi Building Panels to metal stud ceiling framework, use wedi Joint Sealant in addition to wedi Self Tapping Screws and Washers.



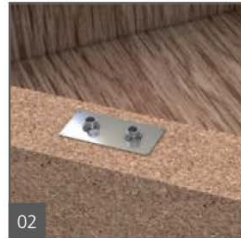
05
Seal all joints and fastener points using wedi Joint Sealant or wedi Sealing Tape. In dry areas, use wedi Self Adhesive Mesh Tape.

Tub Deck Application

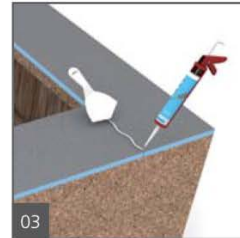


01
The tub frame structure must be properly supported and load bearing

i Tub frame structures can also be built completely of Building Panels.



02
Where fixtures are integrated into the tub deck structure, they should be equipped with a stainless steel plate fixing their position

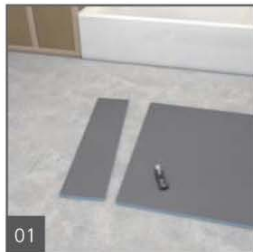


03
The wedi Building Panel is installed over the structure using modified thinset mortar. wedi Fasteners are additionally applied on vertical areas (1 per sq. ft.), no fasteners are used in horizontal areas. All seams, protrusions or fastener points must be water-proofed using wedi Joint Sealant.



04
The tub deck can be tiled over immediately once the wedi board is installed, seams and possible fasteners and cut outs sealed and the thinset mortar has set up.

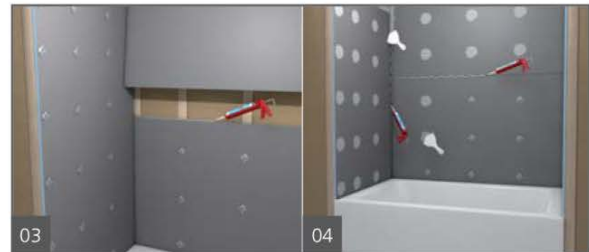
Tub Wall Surround Application



01
Measure and cut wedi Building Panel to fit the 16 inch o.c. framework (wood or metal). Notch out all panels if installed around the perimeter of a flange tub to integrate the flange and achieve a plumb wall with square and tight corners.



02
Attach a notched panel to the framework with a 1/2" bead of wedi Joint Sealant between the notch and flange. Attach the panel to the framework using wedi Washers and Screws at a rate of 1 every 12 inches along the studs. Leave a gap of 1/8" between tub edge and wedi panel bottom end to allow for movement of the tub. Alternatively apply a bead of wedi Joint Sealant in between both materials.



03
Apply a continuous 1/2" bead of wedi Joint Sealant on the top blue foam edge of the wedi Building Panel before installing the next panel, butting tightly into the sealant. Set another wedi Washer and Screw into the seam to create a flush transition between panels and smooth over excess sealant. When installing a wedi side panel against the already fixed wedi back wall, apply a continuous 1/2" bead of wedi Joint Sealant vertically on the back wall wedi panel where both panels will meet. Apply compression to the wedi Joint Sealant when moving the wedi side panel into position before fastening it.

04
Finally and after all wedi Building Panels are installed a second 1/2" bead of wedi Joint Sealant is applied over all seams and fastener points and spread flat using a putty knife.

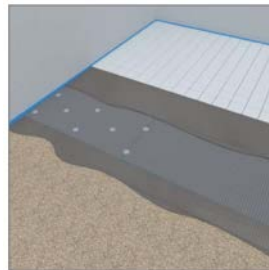
Tub Wall Surround Application



- 1/2", 5/8", and 1" are the recommended minimum thicknesses for installation to framing
- Wood Framing: 2 x 4's (framing depth 3 1/2 inches), Maximum stud spacing 16 inches o.c.
- Metal Framing: Minimum 20 gauge metal studs with maximum 16 inches o.c. spacing
- wedi 1" Building Panel or thicker can be used over 19.1" o.c. spaced wall framing
- wedi Waterproof Joint Sealant or wedi Sealing Tape to be applied over all seams and fastener heads if a waterproof installation is required
- wedi Joint Sealant or wedi Subliner Sealing Collars are used where plumbing protrusions must be sealed
- The Building Panel should be notched out at the bottom to install safely and plumb against the lange of the tub. A bead of wedi Joint Sealant is applied against the flange of the tub
- Attach wedi building panels with one fastener per every twelve inches and in between adjacent panels (seams) over wall framing
- On ceilings, use one fastener per every 6 inches and in between adjacent panels (seams)
- See the wedi Building Panel TDS fore more detailed installation instructions by application on wedicorp.com

! Do not use mastic adhesives for setting tile over wedi product surfaces in wet area applications.

Installation over Wooden Subfloors



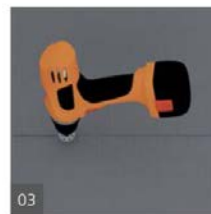
All wedi Building Panel sizes and thicknesses can be used as tile underlayments over concrete subfloors. Modified thinset mortar, combed through with a minimum 1/4" x 1/4" notch trowel, will then provide a ribbed bed into which the wedi Building Panels will be laid. All joints should be staggered so that no seam continues throughout the length of the floor. Apply weights (i.e. tile boxes) onto the surface and where transitions are located while the mortar is setting up. After the mortar has set, wedi alkali resistant fiberglass mesh tape, or wedi Sealing Tape or wedi Joint Sealant should be applied to all seams, then tiling can begin.



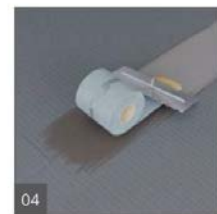
01
Simply spread modified thinset mortar over a clean wood subfloor using a 1/4" x 1/4" notch trowel provided the subfloor is even and loadbearing.



02
Apply the Building Panel by laying the panels into the mortar. Stagger all panel joints.

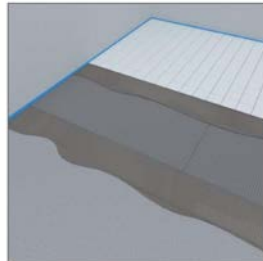


03
Fasten with wedi fasteners. Use wedi tabless washers and wood screws.



04
Tape all joints with wedi fiberglass mesh tape in dry areas or wedi Waterproof Sealing Tape or wedi Joint Sealant in wet areas. Fastener locations should be waterproofed too using wedi Joint Sealant. Begin tiling!

Installation over Concrete Subfloors



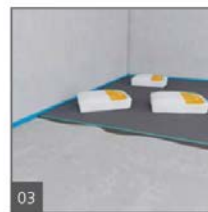
All wedi Building Panel sizes and thicknesses can be used as tile underlayments over concrete subfloors. Modified thinset mortar, combed through with a minimum 1/4" x 1/4" notch trowel, will then provide a ribbed bed into which the wedi Building Panels will be laid. All joints should be staggered so that no seam continues throughout the length of the floor. Apply weights (i.e. tile boxes) onto the surface and where transitions are located while the mortar is setting up. After the mortar has set, wedi alkali resistant fiberglass mesh tape, or wedi Sealing Tape or wedi Joint Sealant should be applied to all seams, then tiling can begin.



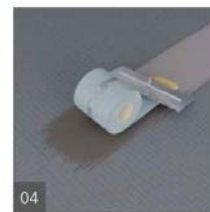
01 Make sure the concrete floor is fully cured and free of debris, oil or waxes. Some concrete floors might require priming or vapor retarders prior to thinset mortar installation.



02 The panels are installed in a full coverage setting bed using modified thinset mortar allowing best connection between subfloor and wedi panel.

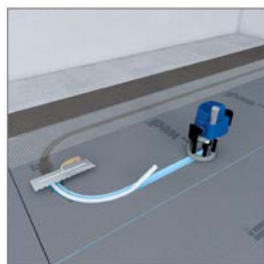


03 Stagger all joints when laying wedi Building Panels on the floor. Apply some weights such as tile boxes equally distributed over the wedi panel surface.

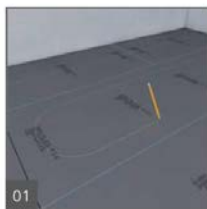


04 Tape all joints with wedi fiberglass mesh tape in dry areas or wedi waterproof sealing tape or wedi Joint Sealant in wet areas. Begin tiling!

Installation of Hydronic/Water Heating Systems



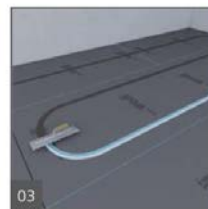
wedi Building Panels are ideally suited for use beneath floor and even wall warming systems. The building panels' good insulation properties keep the heat away from the ground and reflect it back up in to the room, regardless of whether you have a hot-water heating system or an electric system. wedi Building Panels save energy and provide shorter warm up times around your heating system. The warmth is evenly distributed across the entire floor.



01 Draw ducts/grooves onto the wedi building panel for installation of the heating system.



02 Cut grooves using a router. Cutting width should be the same as the pipe width; cutting depth should be at least 1/8" deeper. Make sure at minimum a remaining wedi panel foam thickness of 1/4" remains intact below the pipe.

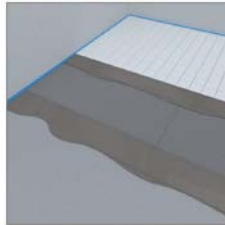


03 Install tubing into the groove. Fill tile adhesive into the pipe duct to cover pipe and fill voids.



04 Apply wedi's wide self adhesive reinforcement tape over the installed ducts. Start tiling. Tiles smaller than 4" x 4" should not be used over hydronic system installation surfaces.

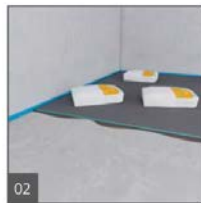
Installation of Electric Floor Warming Systems



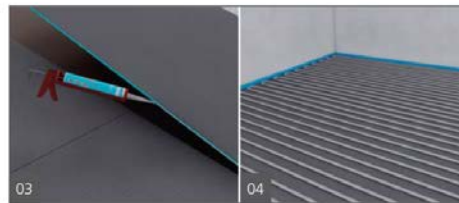
The wedi Building Panels save time and money while conserving energy when used in conjunction with any common electric floor heating system. The extruded polystyrene foam core construction makes the system 100% waterproof and the perfect heat insulator and thermal barrier. wedi Building Panels are equipped with a cement resin surface that is reinforced with a fiberglass mesh and provides an ideal bond to any common tile adhesive or selfleveling product which may be needed to integrate an electric cable or mat system.



01 Make sure the concrete floor is even, fully cured and free of debris, oil or waxes. The wedi Building Panels are installed using modified thinset mortar using a 1/4" x 1/4" notch trowel.

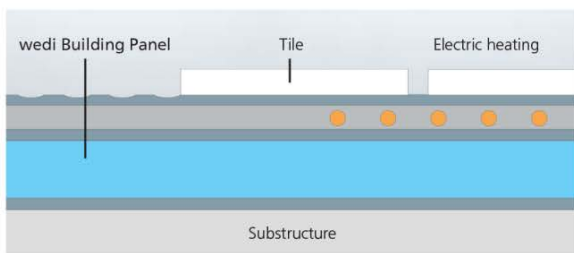


02 Stagger all joints when laying wedi Building Panels on the floor. Apply some weight on the boards during initial thinset setting time and especially over board transitions.



03 wedi Joint Sealant can be applied with a continuous 1/4" bead while setting the panels in position (seams butted tightly) or after they are set and with the bead of sealant installed over the seam before it is spread flat using a putty knife. All excess sealant must be spread flat so joint sealant covers the seams at least 1/2" to 3/4" on either side of the seam. In dry areas wedi selfadhesive alkali resistant mesh tape can be used to reinforce the seams.

Install electric floor warming system according to manufacturer's recommendations. Please make sure the wedi Building Panels are not punctured by staples or other mounting devices.



Electric under floor heating systems are easy to mount on the building panel and downward heat loss is prevented, making the heating system noticeably more effective.

Note on electric floor warming systems

Electric floor heating systems can be installed as per manufacturer's instructions onto already installed wedi product system or underlayment surfaces and reinforced elements (e.g. wedi Building Panels, Fundo floor elements, Sanoasa benches, Sanoasa loungers). Here only products approved for such individual application and areas such as i.e. wet rooms should be used.

Installation of Large Format Thin Porcelain Tile Over Countertops



01 Apply a continuous 1/2" thick bead of wedi Joint Sealant over the spacers of your countertop. Glue down the wedi Building Panel in thickness of 1 1/2" to 2" after you have cut it to size. Leave it recessed behind the front of the counter so you can apply a strip of wedi Building Panel to the exposed foam edge as shown in 02 and still finish flush. Apply some weight equally on the surface for 15 minutes so that the wedi Joint Sealant (a strong adhesive) can set up properly under compression for about 20 minutes.



02 Apply wedi Joint Sealant and a strip wedi Building Panel in any thickness starting from 1/8" thick standard wedi Building Panels. This strip's cementitious coating side will allow you to better set small tile.



03 Cut out for the sink using a jigsaw or handsaw. As needed, recess cuts might be created with a utility knife or a router to accommodate recessed sinks. Cutting the holes may proceed before or after installation of large format, thin porcelain tile as indicated in step 05.



04 Install the large format, thin porcelain tile over the wedi Building Panel surface and edges using a modified thinset.

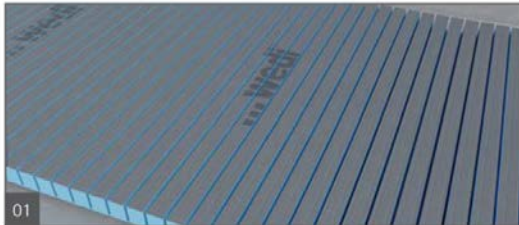


05 Apply weight equally distributed across the tile until thinset mortar has set.

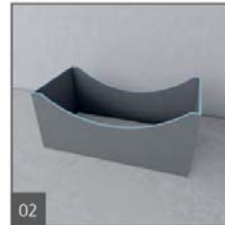
Installation Tips:

- Some large or irregular shaped countertops will require multiple panels. This makes necessary the use of an edge leveling system to maintain a smooth transition between the large format, thin porcelain tile. For timing and method of installation refer to the edge leveling system manufacturer's instructions.
- In areas where the countertop intersects with the back-splash or other vertical projections through the countertop, differential movement will occur. For these active transitions, most manufacturers recommend the use of a color coordinated 100% silicone caulk for its superior flexibility and adhesion, or when applicable a permanent metal or plastic edge treatment piece can be used.
- Full coverage of bonding mortar is critical for the impact resistance of the installed countertop. It has found that a high speed orbital sander with pad is the best way to evacuate the air and collapse the ridges under the panel. The installation guidelines for floors, including but not limited to, proper trowel and troweling technique (excluding the walk in method for embedding), should be followed for countertops.

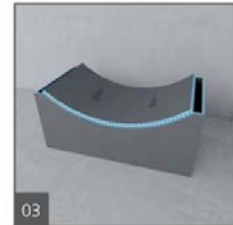
Constructing Individual Bathroom Furniture



01 Create a series of cuts into the wedi Building Panels 1/2 the thickness of the panel deep. The distance between cuts depends on the tightness of the radius needed later. Use a circular saw for these cuts.



02 To shape the wedi Building Panel according to your wishes, you may first want to create a type of template, e.g. out of wood.



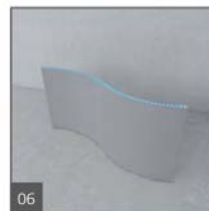
03 Then place the wedi Building Panel flush along the structure, with the incisions facing upwards...



04 ... and apply wedi Self Adhesive Mesh Tape followed by a flat application of thinset mortar.



05 Once the thinset mortar has set, the shaped wedi Building Panel can be moved into its intended final position or application.

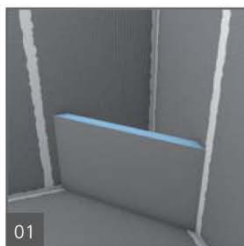


06 A wide range of other shapes are possible using the wedi Building Panel. All you need is a template shaped to suit your needs. A template may not be needed for simpler shaping.

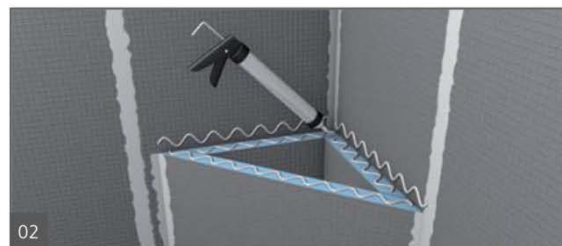
Important:

We recommend to waterproof over cut wedi Building Panels in wet areas as the panels are cut to bend properly, but may break through the foam in handling.

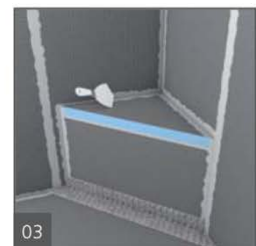
Building Custom Seats and Benches – 1 1/2" or 2" wedi Building Panels



01 Measure and cut the bench pieces off a wedi 2" thick Building Panel and dry fit. When installing a corner seat, the panel edges are mitered for a tight fit. To achieve a slope, the part's upper ends are cut down with a slight angle towards the front of the bench. Optionally, create a pitch using



02 wedi joint sealant as a "wet shim". The wedi parts are adhered to the wall using thinset mortar or wedi Joint Sealant. Adjoining parts are glued together using wedi Joint Sealant continuously applied along all foam edges of a panel part. Excess is spread flat over the seams using a putty knife.



03 thinset mortar and alkali resistant fiberglass mesh tape by wedi, applied over this seam. Alternatively, benches and seats are offered as prefabricated units made by wedi. For longer or larger benches built from our 2" building panel, always install one spacer every 18" in either direction.

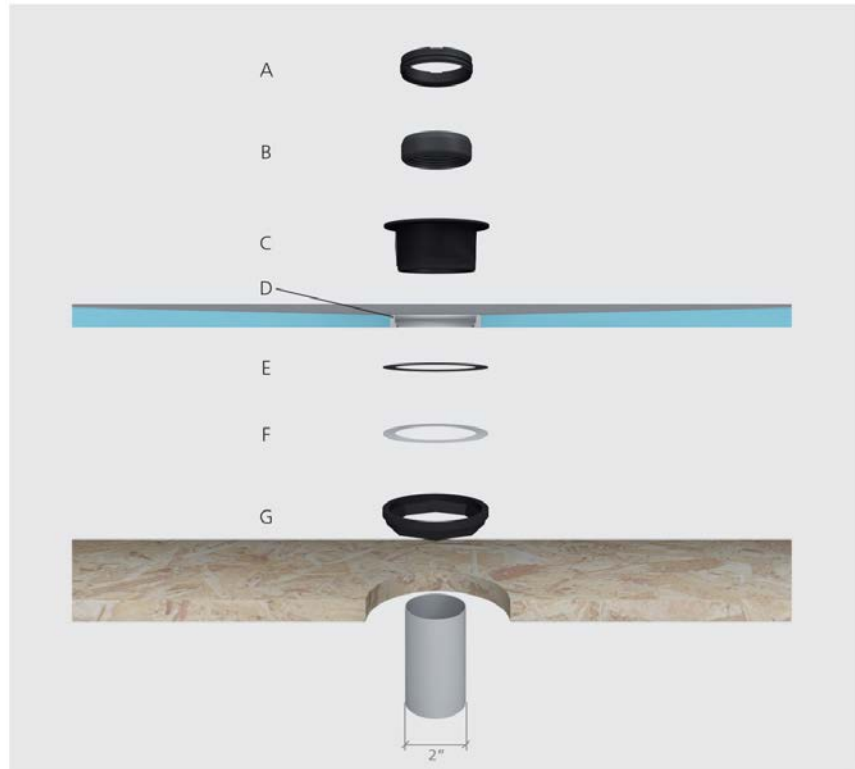
Constructing Steam Showers

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 1/4 inches below the surface of the subfloor.

Optionally a brass drain can be obtained from wedi. The installation proceeds as shown for the standard PVC 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
- Saw Horse
- Tape Measure
- Permanent Marker
- Extension Cord for Powertools
- Shop vacuum cleaner
- Paint roller
- Paint tray

Before Installation

- Have 2 x 4 blocking pieces installed horizontally between wall studs to back the bottom of wedi wall panels
- Framing should be insulated at wall and ceiling areas.
- Have framing for ceiling pitched at rate of 2" per 12 inches ceiling. The ceiling framing must be backed by 2 x 4 pieces sideways to allow for proper backing of wedi wall and ceiling panel connection.
- Subfloor is sound, level and meets deflection criteria. Wooden or concrete structural substrates are dry and loadbearing. Steel framing is loadbearing.
- Floor joists not to exceed 16" o.c. Subfloor panels 3/4" T&G EGP or equivalent.
- 2" PVC or ABS pipe is cut flush/ even with subfloor top surface and is in the correct position
- 2" drain assembly below floor is stabilized 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 contaminants.
- Check that steam technology can be installed and connected to steam shower per manufacturer recommendation.



1 Cut the 2" pipe flush with or max 1/8" above the surface of the floor construction. Make sure that the cut out fits to the Fundo panel drain. Cut out a 5" diameter hole around the 2" pipe to allow the wedi drain to be inserted into the subfloor. The drain and trap have to be sturdily fastened to the sub floor.



2 Assemble the drain unit following the instruction drawing.



3 Set up a continuous 1/4" 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 pan upside down and apply the rubber and the fiber gasket.



6 Tighten the gaskets firmly to the pans 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 1/4" x 1/4" notched trowel. Channels pointing to the entrance.



8 Trowel the thinset on the rear side of the Fundo again using a 1/4" x 1/4" 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).

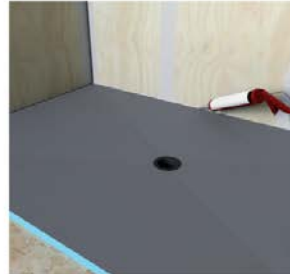


10 Set up the rubber caulking gasket (with the bevelled side up) around the 2" pipe in the subfloor. The rubber gasket must be flush with the upper end of the 2" ABS or PVC pipe.

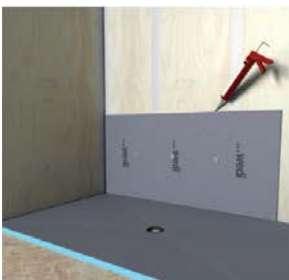
! Do Not use any Lubricants.



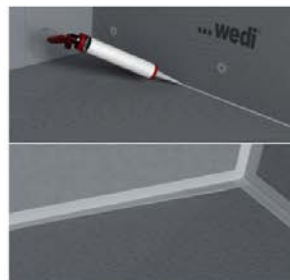
11 Tighten (squeeze) the rubber caulking gasket firmly with the caulking nut (use a flat headed screwdriver) and finally insert the plastic frame and strainer on top (without adhesive). The frame and strainer will be held in a flexible grout joint.



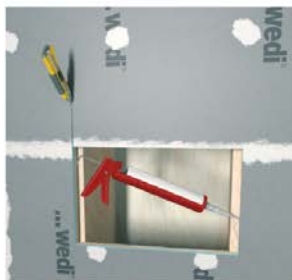
12 Set up a continuous 1/2" bead of wedi sealant along the pans channel on the outer perimeter and only in areas where you can immediately install a building panel into the fresh sealant. Push the wedi panel all the way down into the channel. Smooth out excess sealant using a putty knife.



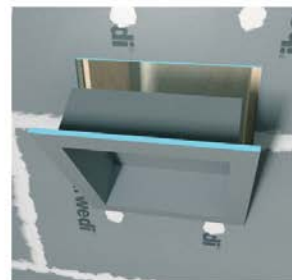
13 You are ready to install the wedi panels around the Fundo, fixed and sealed in the Fundo channels bead of sealant. Fasten the panels directly to the studs using one fastener per foot starting 1 foot above shower floor. One extra fastener is set in between seams of panels to create a flush transition. Make sure that you install wedi building panel on the ceiling using 1 fastener and washer per every 6 inches. The ceiling panel should be installed prior to finally installing and sealing the last wedi wall panels against the wedi panels on the ceiling.



14 Set up a continuous 1/2" bead of wedi sealant between and in all seams to adjacent panels or the base or components. Excessive sealant is smoothed out using a putty knife. An additional 1/2" bead of wedi sealant is set along all seams topically and spread flat over the seam so that the seams are covered 1" on either side of the seam. All fastener points are covered with sealant and coverage exceeds the fastener edge by 1 inch.



15 wedi Niches are installed in a cut out in the wedi wall and attach 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. Do not install wedi niches in framing of exterior walls as it will create a break in your basic insulation.



16 2 Fasteners each side of the niche are set to create a flush transition to the wall panels. Another 1/2" bead of wedi sealant is spread over fasteners and seams.



17 A continuous 1/2" bead of sealant is set into the channel and along the vertical curb notch part. A 1/2" bead of sealant is set against both wedi walls. A 1/2" bed of thin set mortar is set on the floor. The tightly cut to fit curb is pressed into the connection.



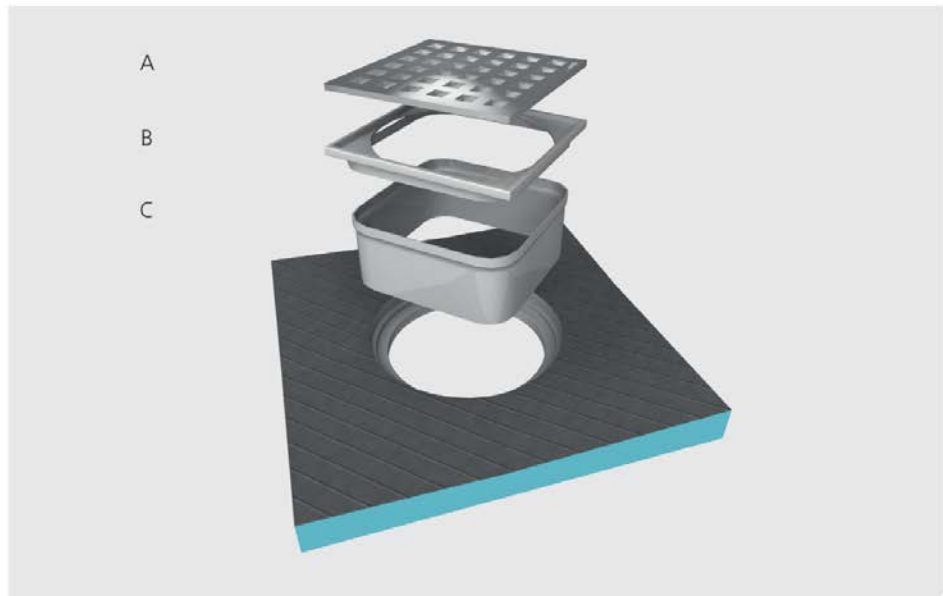
18 Weight is applied on and against the curb from the outside for 30 minutes. Another 1/2" bead of wedi joint sealant is applied over all curb connection seams and spread flat to cover the seams 1" each side of a seam.



19 Now apply wedi vapor barrier in two coats over all interior surfaces on wall, ceiling and seats or other wedi product inside the steam shower. Observe drying time between coats (30 – 45 minutes). Your steam shower is now ready for tiling.

Legend

- A wedi Strainer
- B Strainer Collar
- C Optional Extension Collar



i Insert Strainer Collar into pan 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.

After Installation

- Using a 2" drain plug, the wedi pressure fit drain/sealing gasket is water tested prior to ceramic tile installation and prior to other full surface flood tests.
- All bottom perimeter joints, curb joints and vertical joints are covered with wedi Joint Sealant. Coverage should be continuously visible for at least ¾" to 1" on each side of the joint.
- No mastic adhesives are used to install ceramic tile in the wedi system. A high quality modified thinset mortar is recommended. Tiles smaller than 2 x 2 inches require epoxy grout. Exception are pebble stones or river rock stones where a modified cement bade grout can be used.
- Large format tile can be used on wedi Fundo bases. The tiles must be cut where the slope fields meet.
- When complete wedi shower system is installed with wedi joint sealant, a water flood test may be performed only 2 hours after final application of wedi joint sealant (application temperature must be ambient/ interior with normal relative humidity and temperatures above 40°F).

Additional Best Practices / Tips when installing wedi Building Panel

- 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.
- wedi Building Panel can be cut with just a utility knife. Rather than score and snap, try to simply cut through the entire panel, thus achieving a square edge and full contact/adhesion surface helping with joining and sealing panels at transitions.
- When repairing defective or cracked tile it might become necessary to replace it. This can be done by carefully cutting out grout joints and cutting the tile into many smaller pieces that could be removed more easily. When removing tile pieces from wedi surfaces please make sure to not expose the entire assembly to excessive shock and vibration when using hammer and chisel. This may tear on seams and seals. wedi Building Panel will develop a very strong bond to tile and tile adhesive and, in the process of removing tile, pieces it may happen that part of the wedi panel's surface coating will tear off. The waterproofing is, however, not compromised and the area may be tiled over again as long as the foam core of the wedi product has not been fully penetrated. In the case that a full penetration of the foam core occurs please cut out the entire wedi panel/tile section using a utility knife with extended blade or a detail hand saw. Cuts on all four sides must be made in a 45 Degree angle making the cut out more narrow towards the inside of the framing. Next, a replacement piece of wedi building panel with angle cut edges fitting the cut outs is fabricated and safely sealed into the wall panel opening using wedi Joint Sealant. Another application of wedi Joint Sealant is flat troweled over the seam. The new wedi wall section is now skim coated with thinset mortar. A new replacement tile , back buttered with thinset mortar, is now installed and grout is applied.