



**EURO BASE**  
**INNOVATION IN OUTDOOR STONE & TILE INSTALLATIONS**

TDS Revision Date (dd/mm/yyyy): 27/06/2016

# TECHNICAL DATA SHEET

**Update:** June 27, 2016  
 Make sure you have an updated data sheet on hand.  
 Canada and U.S. dial **1-855-847-7767** or (450) 624-1611

**Description:** **EURO BASE** is an evolution in base technology saving you time, labor and money for pedestrian applications. Designed with a tongue and groove system **EURO BASE** is easy to install. Evacuating water through its channels **EURO BASE** is equivalent to 240 lbs (109 kg) of crushed stone, saving you 6 in (15 cm) of extra excavation. **EURO BASE** is manufactured using lightweight high-density polypropylene and is environment-friendly and 100% recyclable. Extremely durable, **EURO BASE** will not degrade in the ground.

<b>Material Type</b>	Expanded Polypropylene (EPP)	
<b>Material Thickness</b>	0.75in (19mm)	
<b>Material Density</b>	3.43 lbs / cubic ft (55 grams / liter)	
<b>Part Format</b>	Edge Interlocking Tongue & Groove	
<b>Part Size</b>	6 sq ft per panel paver bearing surface	
<b>Part Dimensions</b>	Overall usable surface dimensions: 5.79 sq ft	
<b>Part Weight</b>	1.5 lbs per panel	
<b>Tensile Strength</b>	101.5 psi	ISO 1798
<b>Tensile Elongation</b>	11%	ISO 1798
<b>Vertical Permeability</b>	>100 inches / hour	EN 12616
<b>Thermal Expansion</b> Per 1°C change	0.003 in / ft	ISO 4897
<b>Compression Set-Static load</b> (50% strain, 22hrs. 23°C after 24 hrs)	38%	ISO 1856c
<b>Thermal Resistance</b> R Value (per inch thickness)	3.6 per in	
<b>Microbiological / Chemical Resistance</b> Chemical resistance	No detrimental effects	

**Thermal Properties:**

<b>Thermal conductivity</b>	0.264 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
<b>Melting point</b>	248-356°F	
<b>Decomposition Temperature</b>	>= 356°F	
<b>Flash point</b>	>= 392°F	ASTM D1929
<b>Ignition temperature</b>	>360°C	ASTM D1929
<b>Dimensional stability at heat</b>	<2%	Linear size alterations after 4 d, 110°C; DIN ISO 2796

**Ideal For:**

- Difficult to access areas**
  - Hills.
  - Limited access areas.
  - Stairs.
  - Tight work spaces.
  - Narrow alleys.
- Restricted construction zones**
  - Where material storage is prohibited in streets.
  - Save costly dumping fees.

**Where construction speed is critical**

- Easy to use, install and transport.
- No industrial equipment needed.
- 25% savings in labor costs.

**Limited budget**

- Saves time and money.
- 50% savings in materials removal.
- Higher profit margins.
- Saving expensive costs of material disposal.



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**INSTALLATION INSTRUCTIONS:**

Please follow ICPI Tech Specs 2 & 9 for compaction regulations.

**STEP 1 • Excavation of the New Euro Base Area**

Total excavation will be done as follows - Total depth will be determined by adding together the following elements' depths: Geo-fabric, compacted bedding sand's final height (1/2 in [13 mm]), Euro Base (3/4 in [19 mm]), and paver's height. • Total excavation width should be 6 in (15 cm) wider on each side than the final paved area. This excavation could be done using a shovel or small mini-excavator, which can easily go through narrow passages. • Prior to excavating, check with local utility services to ensure digging does not damage underground pipes or wires.

**STEP 2 • Levelling and Compacting of the Base**

(A) • Once excavation is completed, level the excavated area using a rake or shovel. • Ensure a slope of at least 1 degree away from any structure, such as a house. (B) • The native soil needs to be prepared and compacted in the same way that one would prepare a traditional base installation, using a hand tamper or plate compactor. • This area should be as smooth as possible to get rid of high or low spots within about 3/8 in (10 mm). • Using a string level (stakes and a string line), tie the string to the stakes to establish level according to which the final slope will be measured (minimum of 1 degree to the desired final paver level). • Once the final level is achieved, proceed to step 3.

**STEP 3 • Addition of Geo-Fabric and Compacted Bedding Sand**

(A) • Lay down the geo-fabric and cover the complete excavated area. (B) • Spread an even layer of sand to a depth of 3/4 in (19 mm) over the geo-fabric. • To obtain a perfect 3/4-in (19 mm) bedding layer, use two 3/4-in (19 mm) pipes with an equal distance of 4 to 6 ft (1.22 to 1.83 m) over the geo-fabric and fill the surrounding area with sand. Using a straight board, level the bedding sand relatively to the pipes. • When removing the pipes, fill in the empty gaps. • Remember that levelling and compacting the bedding sand will be the last step prior to installing the Euro Base. (C) • Using a hand compactor and/or plate compactor, compact the 3/4 in (19 mm) of bedding sand until you obtain a final height of 1/2 in (13 mm) of compacted bedding sand. The final area should be smooth.

**STEP 4 • Installation of the Euro Base**

Make sure to install the Euro Base on the extended excavation area (total excavation should be 6 in [15 cm] wider on each side than the final paved area). • Start laying the Euro Base units according to a staggered pattern while ensuring locking of the tongue & groove system. This will guarantee the panels' stability when the pavers or slabs are laid down. • Trim any visible curves or protruding angles using a utility knife.

**STEP 5 • Installation of Pavers and Euro Edge.**

It is recommended to create a path with pieces of plywood in order to avoid displacing or damaging the Euro Base. • Lay the pavers directly onto the Euro Base according to the selected pattern. • (Adding a second layer 1/2 in (13 mm) of loose bedding sand on top of the Euro Base is also an accepted method of installation.) • Use a rubber mallet to adjust the pavers. • Make sure the Euro Base is 6 in (15 cm) wider on each side than the paved surface. Install Euro Tile Edge on the Euro Base, making sure that it rests firmly against the pavers. A nail will be driven into every second hole to maximize lateral support of the Euro Tile Edge.

**STEP 6 • Sweeping, Compacting and Blowing of the Euro tile Sand**

(A) • When emptying the bag of polymeric sand, spread it onto the dry, paved surface. This will avoid separation and sweeping a mountain of sand. • When sweeping the polymeric sand, spread over a small area before moving onto the next, while making sure to fill in the joints. (B) • It is now time to compact the sand into the joints using a hand tamper or plate compactor. Do not use a plate compactor over slabs. Repeat filling and compacting of the paver joints. Finally, sweep the surface with a fine bristle broom and remove all excess sand. • Ensure the sand is 1/8 in (3 mm) lower than the paver chamfers. (C) • Finally, use a blower to blow off all sand residue laying on the paved surface. • The combined actions of the sweeping and blowing will help eliminate any hazing effect. • Avoid callbacks! • Euro Tile Systems is the only manufacturer that offers a 10-year limited warranty on all its polymeric sand.

**STEP 7 • Watering and Blowing Action**

The watering process will activate the polymeric sand's bonding process, and the sand will harden when dry. (A) • Set your water spray to "mist," and from a height of 4 ft (1.22 m), spray the paved surface for 10 to 15 seconds then wait 3 to 4 minutes. (N.B. Ensure the paved surface does not dry between waterings) (B) • From a height of 2 to 4 ft (0.60 to 1.22 m), mist and rinse the paved surface and wait 3 to 4 minutes before repeating the mist-and-rinse process for a third and final time. However, stop misting (ALERT) when you see a minimal amount of water retention on the paver joints. • If the work is being done on a hot summer day, avoid spraying large areas, as they will dry up faster. (C) • Finally, use a blower to remove any excess water lying on the paved surface. Again, this process eliminates any potential hazing effect. • Carefully following these installation steps guarantees elimination of any callbacks, and increases referrals.



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(Adding a second layer 1/2 in (13 mm) of loose bedding sand on top of the Euro Base is also an accepted method of installation.)

\*The pavers' or natural stones' height (1 1/8 in to 3 1/8 in [2.8 to 8 cm]) will determine the total excavation depth.

- Advantages:**
- Save 6 in (15 cm) of extra excavation.
  - Save 6 in (15 cm) of compacted crushed stone.
  - Save cost of truck and driver on the road.
  - Avoid costly dumping fees.
  - Reduce labor costs.
  - Reduce wear and tear on machinery.
  - Reduce overall installation time.
  - Increase profit.

**Please Note:**

- For pedestrian use only.

### Coverage Per Euro Base Unit:

**Total area** 24 in x 36 in = 6 ft sq / 60 x 90 cm = 0.54 m sq  
**Usable surface** 23.5 in x 35.5 in = 5.79 ft sq / 0.59 m x 0.9 m = 0.53 m sq

Packaging:	Product	Size	Units per Pack	Units per Pallet
	Euro Base	24 in x 36 in	10	120

### WARRANTY:

**ALLIANCE DESIGNER PRODUCTS INC.** cannot guarantee results as it has no control over surface and sub-surface preparation and product application. **ALLIANCE DESIGNER PRODUCTS INC.** agrees that, if the product is proven to be defective, and on the condition that it was installed pursuant to the method of application of surface and sub-surface preparation described above, then **ALLIANCE DESIGNER PRODUCTS INC.** agrees to refund the purchase price. Proof of purchase is required for any claim. EXCLUSION OF RESPONSIBILITY THE PARTIES AGREE THAT REFUND OF THE PURCHASE PRICE AS STATED IS THE ONLY OBLIGATION OF **ALLIANCE DESIGNER PRODUCTS INC.** IN ALL EVENTS, ALLIANCE DESIGNER PRODUCTS INC., SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES OR COSTS, DIRECT OR CONSEQUENTIAL. TO THE EXTENT PERMITTED BY LAW, ALLIANCE DESIGNER PRODUCTS INC., EXCLUDES ANY IMPLIED WARRANTY OF QUALITY, MERCHANTABILITY OR FITNESS FOR PURPOSE.