

PAVERS

DRIVEWAYS, PERMEABLE DRIVEWAYS & PATIOS







PHYSICAL AND GEOMETRICAL CHARACTERISTICS

CHARACTERISTICS	ASTM C936
Compressive strength	8000 psi [55 MPa] min.
Absorption	5 % max.
Resistance to freezing and thawing	Mass loss (max.): 225 g/m ² at 28 cycles, or 500 g/m ² at 49 cycles
Dimensional tolerance	Length and Width: ± 0.063 in. [1.6 mm] Thickness: ± 0.125 in. [3.2 mm]

Notes: Dimensional tolerances prior to the application of architectural finishes.

INSTALLATION GUIDE

TYPICAL APPLICATION USAGE

SECTOR	TRAFFIC TYPE & APPLICATIONS	PAVERS
RESIDENTIAL	 <p>1. Light traffic Cars and occasional light service trucks (ex. residential driveways)</p>	<ul style="list-style-type: none"> - Allegro - Antika - Aquastorm - Blu 80 mm - Blu 80 mm (6 x 13) - Diamond - Eva - Hera (square & rectangle) - Hexa 100 mm - Industria 300 x 900 (see Note 1) - Industria 600 x 900 (see Note 1) - Linea (small rectangles) - Mika - Mista Grande & Random - Parisien (square, rectangle, circle) - Sleek - Squadra - Travertina Raw - Valet - Victorien 60 mm - Villagio - Westmount - All products from traffic type 2 & 3.
	 <p>2. Road traffic Cars, heavy trucks, buses (ex. boulevards, main or secondary streets, pedestrian crossings, industrial, ports and airport areas)</p>	<ul style="list-style-type: none"> - Industria 150 x 150 - Industria 200 x 200 - Industria 300 x 100 - Industria 300 x 150 - Industria 300 x 300
ICI (Industrial, Commercial and Institutional)	 <p>3. Light traffic Cars and occasional light service trucks (ex. parking lots, sidewalks)</p>	<ul style="list-style-type: none"> - Aquastorm - Hexa 100 mm - Industria 200 x 400 - Industria 450 x 150 - Industria 450 x 300 - Industria 600 x 300 - Industria 600 x 600 (see Note 1) - Linea (large rectangles) - All products from traffic type 2.
	 <p>4. Pedestrian Pedestrian only and at all times, without cars, or trucks or other mobile equipment (ex. terraces, parks, pedestrian walkways)</p>	<ul style="list-style-type: none"> - Aquastorm - Blu 80 mm (6 x 13) - Diamond - Hexa 100 mm - Industria 450 x 100 - Industria 600 x 100 - Industria 600 x 200 - Industria 300 x 900 - Industria 600 x 900 - Industria 900 x 900 - Linea (small rectangles) - Sleek - Westmount - All products from traffic type 2 & 3.

Note 1: For vehicular applications, it is recommended that this product be installed on a concrete base as designed by a local Engineer.

INSTALLATION GUIDE

INTERLOCKING CONCRETE PAVEMENT

INSTALLATION OUTLINE

01 EXCAVATION

- A. Before excavating, call all the local utility companies (e.g., phone, gas, electrical) to ensure that the area in which you plan to dig is clear of underground cables or wires. If any are found, please notify the appropriate companies before you begin.
- B. When excavating, it is important to achieve a slope in increments of 1.5% ($\frac{3}{16}$ " per ft/5 mm per 300 mm), which will allow for proper drainage. The excavation should mirror the final grade of pavement.
- C. The width of the base behind the edge should be equivalent to the thickness of the base.
- D. Using a rake, grade the bottom of the excavated area. If the natural soil is granular or sandy, we recommend that you compact the soil with a vibrating plate. If the soil is clay-like, change the soil with a blend of lime and crushed stone prior to compaction. Next, cover it with a layer of geotextile fabric to prevent the contamination of the base (clay and 0- $\frac{3}{4}$ " [0-20 mm] crushed stone). Refer to the table "**Thickness of the Granular Foundation**" (on next page) to find the minimum thickness of foundation required.

02 FOUNDATION

- A. Install a 0- $\frac{3}{4}$ " (0-20 mm) crushed stone base, in 4" (100 mm) lifts with a minimum 5,000 lbf (22 kN) vibrating plate compactor.
- B. To facilitate compacting, wet the base material thoroughly and compact with a vibrating plate proceeding in all directions. Continue this process until you have achieved the desired height. At this stage, you can verify the final height with the help of a paver.
- C. Base tolerance $\pm\frac{3}{8}$ " (10 mm) for every 10' (3-m) increment.

03 THE SETTING BED

- A. On the compacted crushed base, install two pipes with an outside diameter of 1" (25 mm). Grade the concrete sand with the help of a straight edge (or Quick-E leveler). If the base is not properly graded and smooth, imperfections will be evident in the finishing grade of the pavement.
- B. Bedding sand should not be compacted until all paving stones have been laid down. Passing the vibrating plate over the paving stones causes them to settle approximately $\frac{3}{8}$ " (10 mm) into the bedding sand.

04 INSTALLATION OF PAVING STONES

- A. Once the choice of paving stones and the design have been finalized, we recommended that you start installing the pavers at a 90-degree angle. To do so, proceed as follows: measure a first horizontal line of 3' (1-m) and a second line of 4' (1.2 m) perpendicular to the first. Connect a third straight line of 5' (1.5 m) which will form a triangle. The result will be a perfect 90-degree angle. While installing the paving stones, walk on the installed pavers, and fill in gaps caused by the pipes with concrete sand.
- B. It is always recommended that you use more than two cubes at a time in order to maximize the color blend. Furthermore, you should proceed with the cubes from top to bottom.
- C. You may use a chalk line to mark the stones to be cut along the borders, using a guillotine or a concrete saw. When cutting paving stones, we recommend that you wear protective ear and eyewear.
- D. Once you finish installing the paving stones, you can then install Avignon, Belgik or Pietra curbstone on the granular base. To keep curbs in place, add mortar along the back to form a 45-degree angle between the ground and the curbstone or, when available, using the plastic retention system. In a vehicular traffic application, the mortar must be reinforced using steel rods.

05 FILLING IN JOINTS

- A. Spread out the polymer stabilizer sand on the paving stones and sweep in between joints in all directions.
- B. Pass a vibrating plate in all directions to allow sand to penetrate between the joints.
- C. Sweep once more and remove excess sand. Follow the instructions exactly as indicated on the polymer stabilizer sand packaging.

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INTERLOCKING CONCRETE PAVEMENT



VIBRATING PLATE ALERT!

Avoid scuffs on paver surfaces. Pavers with embossed surfaces (high and low points) are more susceptible to scuff marks from plate compactors. Techo-Bloc recommends the use of urethane mats between the plate and the paver surface when compacting. Techo-Bloc will not be held responsible for compaction scuffs or burns on pavers.

THICKNESS OF THE GRANULAR FOUNDATION¹

RESIDENTIAL PROJECTS	TYPE OF EXISTING SOIL	
	Clayey or Silty ²	Sandy or Gravelly
Driveways	8" to 14" (200 to 350 mm) Minimum	6" to 10" (150 to 250 mm) Minimum
Patios and Walkways	6" to 8" (150 to 200 mm) Minimum	4" to 6" (100 to 150 mm) Minimum

1. Data shown in this chart are provided as guidelines only. The range of values suggested depends particularly on existing soil conditions. The thicker the granular foundation, the greater the increase in stability of the whole structure.
2. In the case of unstable soils or ones particularly affected by the freeze-thaw cycles, a thicker foundation may be necessary. For soils with these conditions or for commercial, industrial, or institutional works, a geotechnical professional should be consulted.

QUANTITY CHART FOR JOINTS FILLING per polymeric sand bag of 50 lbs (22.7 kg)

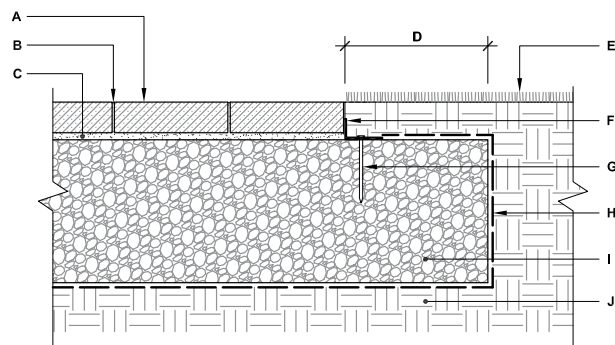
PRODUCTS	sq. ft	sq. m
Allegro	38	3.5
Antika	21	2
Blu 80 mm	76.5	7.11
Blu 80 mm (6"×13")	31.97	2.97
Diamond	28.4	2.64
Eva	143.56	13.34
Hera square	81.16	7.54
Hera rectangle	101.24	9.41
Hexa 100 mm	61.1	5.7
Industria 150 series - 150×150	31.6	2.94
Industria 200 series - 200×200	41.03	3.81
Industria 200 series - 200×400	54.57	5.07
Industria 300 series - 300×100	30.77	2.86
Industria 300 series - 300×200	41	3.81
Industria 300 series - 300×300	61.39	5.70
Industria 450 series - 450 x 100	33.5	3.11
Industria 450 series - 450 x 150	46.4	4.31
Industria 450 series - 450 x 300	73.5	6.83
Industria 600 series - 600×100	35.06	3.26
Industria 600 series - 600×200	61.32	5.70
Industria 600 series - 600×300	81.72	7.59
Industria 600 series - 600×600	122.48	11.38
Industria 900 series - 900 x 300	103.5	9.6
Industria 900 series - 900 x 600	166.5	15.5
Industria 900 series - 900 x 900	208.4	19.4
Linea small rectangles	31.47	2.92
Linea large rectangles	42.33	3.93
Mika	16.41	1.53
Mista random	50.4	4.69
Mista Grande	43.4	4
Parisien square	100.64	9.35

Parisien rectangle	120.55	11.20
Parisien circle	49.25	4.58
Sleek	97.12	9.03
Squadra	14.50	1.35
Travertina Raw	16.41	1.53
Valet	24.1	2.2
Victorien 60 mm	97.06	9.02
Villagio	18.50	1.72
Westmount	25.3	2.4

Topsoil quantity in lb (kg) to cover an area of 1 sq.ft (1 sq.m) to fill in between joints and the paver cavity.

PRODUCTS	lbs/sq. ft	kg/sq. m
Aquastorm (see Permeable Pavers section)	12.60	61.40

TYPICAL PAVER CROSS SECTION WITH PLASTIC EDGE



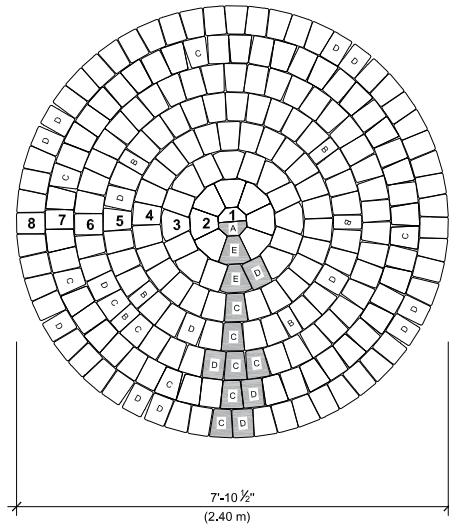
- A.** TECO-BLOC PRECAST CONCRETE PAVER 2 3/8" (60 mm) THICK MIN.
- B.** SAND JOINT FILL
- C.** SAND SETTING BED (CONCRETE SAND) 1" (25 mm)
- D.** EXTRA WIDTH EQUAL TO FOUNDATION THICKNESS
- E.** LAWN
- F.** PLASTIC EDGE
- G.** NAIL
- H.** GEOTEXTILE
- I.** COMPACTED GRANULAR BASE 0-3/4" (0-20 mm)
- J.** SUBGRADE

INSTALLATION GUIDE

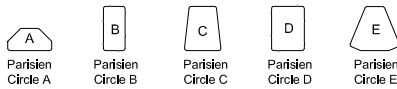
PARISIEN CIRCLE - LAYING PATTERN

7'-10 1/2" (2.40 M) DIAMETER CIRCLE

Each Parisien Circle pallet comes with a surplus of materials. There are enough pavers in each pallet for 1 full circle of 7'-10 1/2" in diameter. To get a complete circle, be sure to follow the laying order illustrated. In each ring, the repetitive sequence pattern is shown in grey color. When there is break in the repetitiveness of the sequence, the specific stone is identified with a letter on a white background.



RING	DIAMETER		SURFACE AREA		UNITS				
	ft	m	ft ²	m ²	A	B	C	D	E
1	0'-6 5/16"	0.16	0.22	0.02	2	-	-	-	-
2	1'-6 7/8"	0.48	1.95	0.18	-	-	-	-	8
3	2'-7 1/2"	0.80	5.41	0.50	-	-	-	8	8
4	3'-8 1/8"	1.12	10.60	0.99	-	-	26	-	-
5	4'-8 1 1/16"	1.44	17.53	1.63	-	5	28	3	-
6	5'-9 5/16"	1.76	26.19	2.43	-	1	28	14	-
7	6'-9 7/8"	2.08	36.57	3.40	-	-	28	23	-
8	7'-10 1/2"	2.40	48.69	4.52	-	-	25	34	-
TOTAL					2	6	135	82	16



Patterns are for design inspiration only. The installer is responsible to calculate & purchase the correct amount of material.

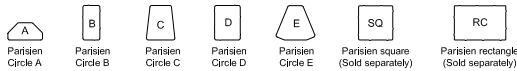
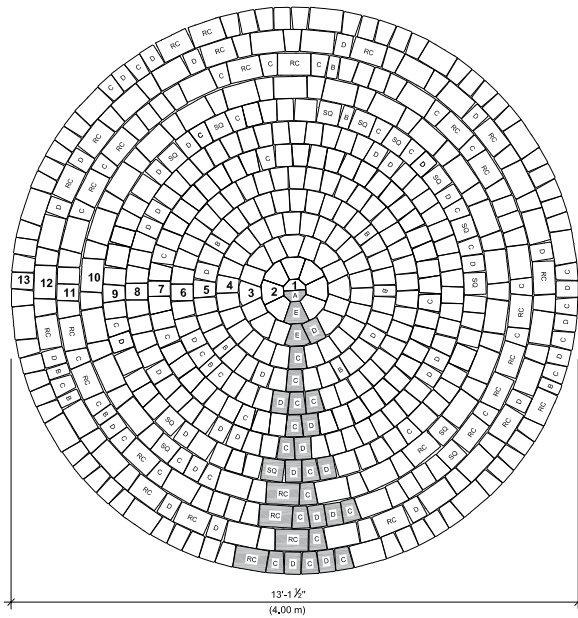
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PARISIEN CIRCLE - LAYING PATTERN

13'-1 1/2" (4.00 M) DIAMETER CIRCLE

The Parisien Circle can be extended up to 13'-1 1/2" (4.00 m) diameter by using (note that there will be a surplus of materials):

- 2 pallets of Parisien Circle
- 1 row of a pallet of Parisien Square
- 3 rows of a pallet of Parisien Rectangle



To get a complete circle, be sure to follow the laying order illustrated. In each ring, the repetitive sequence pattern is shown in grey color. When there is a break in the repetitiveness of the sequence, the specific stone is identified with a letter on a white background.

Patterns are for design inspiration only. The installer is responsible to calculate & purchase the correct amount of material.

RING	DIAMETER		SURFACE AREA		UNITS						
	ft	m	ft ²	m ²	A	B	C	D	E	SQ	RC
1	0'-6 5/16"	0.16	0.22	0.02	2	-	-	-	-	-	-
2	1'-6 7/8"	0.48	1.95	0.18	-	-	-	-	8	-	-
3	2'-7 1/2"	0.80	5.41	0.50	-	-	-	8	8	-	-
4	3'-8 1/8"	1.12	10.60	0.99	-	-	26	-	-	-	-
5	4'-8 11/16"	1.44	17.53	1.63	-	5	28	3	-	-	-
6	5'-9 5/16"	1.76	26.19	2.43	-	1	28	14	-	-	-
7	6'-9 7/8"	2.08	36.57	3.40	-	-	28	23	-	-	-
8	7'-10 1/2"	2.40	48.69	4.52	-	-	25	34	-	-	-
9	8'-11 1/16"	2.72	62.54	5.81	-	1	17	25	-	18	-
10	9'-11 11/16"	3.04	78.13	7.26	-	-	25	1	-	2	24
11	11'-0 5/16"	3.36	95.44	8.87	-	2	28	15	-	1	20
12	12'-0 7/8"	3.68	114.48	10.64	-	2	20	11	-	-	30
13	13'-1 1/2"	4.00	135.26	12.57	-	1	42	29	-	-	15
TOTAL					2	12	267	163	16	21	89

PLEASE REFER TO P.4 FOR THE CORRECT USE AND LIMITATIONS OF PROVIDED TECHNICAL INFORMATION.