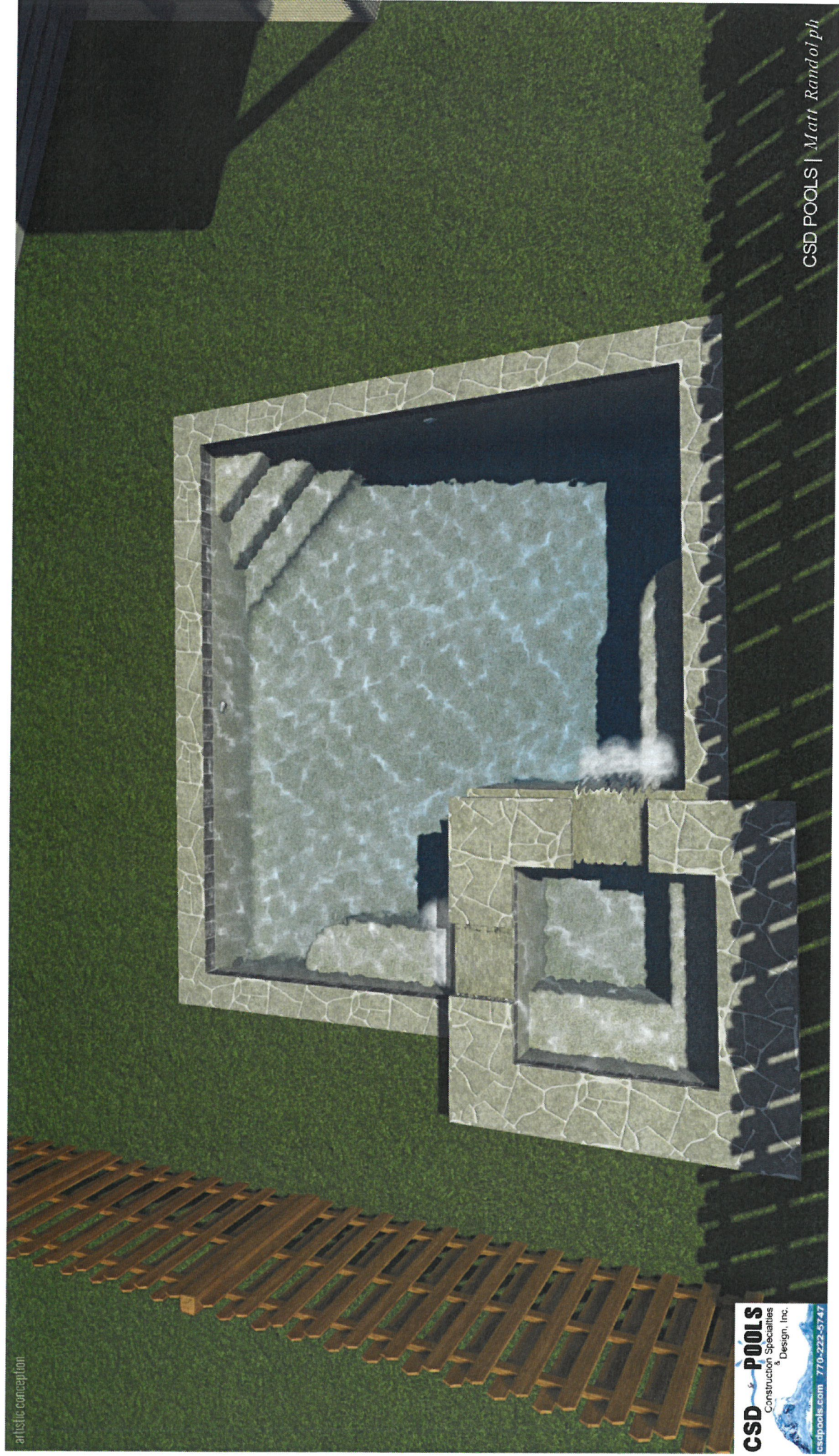




artistic conception



**CSD POOLS**  
Construction Specialties  
Design, Inc.  
csdpools.com 770-222-5747

CSD POOLS | Matt Randolph









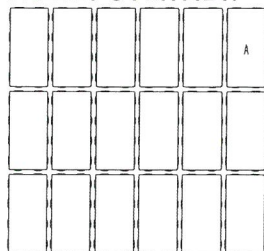




## BLU 60 mm (6"×13")

**DESCRIPTION:** Paver or Slab **TEXTURE:** Slate and HD<sup>2</sup> Slate

### PALLET OVERVIEW



### NOTES

See page 16 to 19 for more technical information. When used in a permeable pavement application, see page 89 to 95 for more technical information.

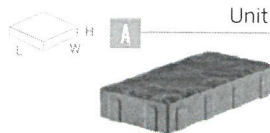
\*Harvest gold is only available in Midwestern USA. See page 13 for list of Eastern and Midwestern States.

**JOINT WIDTH:** 9/32" ( 7 mm)

**% OF SURFACE OPENING:** 4.6 %

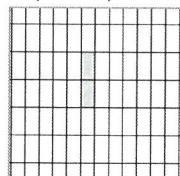
**INFILTRATION RATE:** 570 IN./HR  
(14 475 MM/HR)

Specifications per pallet		Imperial	Metric
Cubing		<b>116.05 ft<sup>2</sup></b>	10.78 m <sup>2</sup>
Approx. Weight Slate		3 138 lbs	1 423 kg
Approx. Weight HD <sup>2</sup> Slate		3 183 lbs	1 444 kg
Number of rows		11	
Coverage per row		10.55 ft <sup>2</sup>	0.98 m <sup>2</sup>
Linear coverage per row	Depth	19.5 lin. ft	5.94 lin. m
	Length	9.75 lin. ft	2.97 lin. m

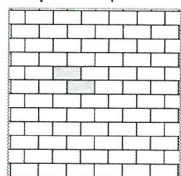


Unit dimensions	in	mm	Units /pallet
Height	2 3/8	60	198 units
Width	13	330	
Length	6 1/2	165	

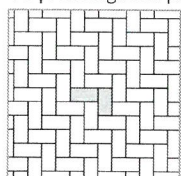
**01 | Linear pattern**



**02 | Linear pattern**



**03 | Herringbone pattern**



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



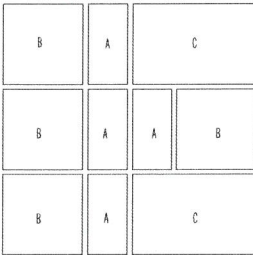




## BLU 60 mm

DESCRIPTION: Slab TEXTURE: Slate, Slate Aged and HD² Slate

### PALLET OVERVIEW



### NOTES

See page 16 to 19 for more technical information. When used in a permeable pavement application, see page 89 to 95 for more technical information.

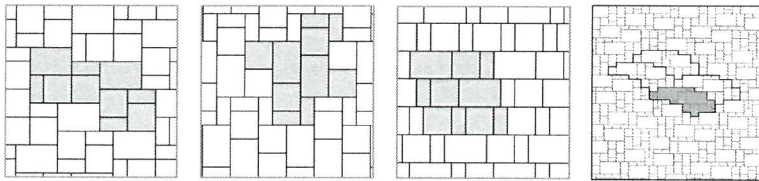
\*Harvest gold is only available in Midwestern USA. See page 13 for list of Eastern and Midwestern States.

**JOINT WIDTH:** 9/32" ( 7 mm)  
**% OF SURFACE OPENING:** 3.0 %  
**INFILTRATION RATE:** 570 IN./HR  
 (14 475 MM/HR)

Specifications per pallet	Imperial	Metric
Cubing	<b>116.82 ft²</b>	10.96 m²
Approx. Weight slate	3 148 lbs	1 428 kg
Approx. Weight slate aged	3 170 lbs	1 438 kg
Approx. Weight HD² Slate	3 268 lbs	1 482 kg
Number of rows	11	
Coverage per row	10.62 ft²	0.99 m²
Linear coverage per row	9.81 lin. ft	3.02 lin. m

Unit dimensions	in	mm	Units /pallet
<b>A</b>			
Height	2 3/8	60	44 units
Width	13	330	
Length	6 1/2	165	
<b>B</b>			
Height	2 3/8	60	44 units
Width	13	330	
Length	13	330	
<b>C</b>			
Height	2 3/8	60	22 units
Width	13	330	
Length	19 1/2	495	

01 | Modular pattern 02 | Modular pattern 03 | Linear pattern 04 | Modular pattern  
 55% Blu 60  
 45% Blu Grande



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





# SLABS

PATIOS, WALKWAYS, POOLSIDES & STEPPING STONES



## PHYSICAL AND GEOMETRICAL CHARACTERISTICS


CHARACTERISTICS	ASTM C1782
Modulus of rupture	725 psi [5.0 MPa]
Resistance to freezing and thawing	Mass loss (max.): 225 g/m <sup>2</sup> at 28 cycles, or Mass loss (max.): 500 g/m <sup>2</sup> at 49 cycles
Dimensional tolerance (Units up to and including 24 in. [610 mm])	Length & Width: -0.04 in. [1.0 mm] and +0.08 in. [2.0 mm] Thickness: ± 0.12 in. [3.0 mm]
Dimensional tolerance (Units over 24 in. [610 mm])	Length & Width: -0.06 in. [1.5 mm] and +0.12 in. [3.0 mm] Thickness: ± 0.12 in. [3.0 mm]
Concave or Convex Warpage (Up to and including 17.75 in. [450 mm])	± 0.08 in. [2.0 mm]
Concave or Convex Warpage (Over 17.75 in. [450 mm])	± 0.12 in. [3.0 mm]

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



# INSTALLATION GUIDE

## TYPICAL APPLICATION USAGE

SECTOR	TRAFFIC TYPE & APPLICATIONS	SLABS
RESIDENTIAL	<b>1. Light traffic</b>  Cars and occasional light service trucks (ex. residential driveways)	- Blu 60 mm (6 x 13) - Everest Square (250 x 250)
	<b>2. Pedestrian</b>  Pedestrian only and at all times (ex. patios)	- Aberdeen - Blu 60 mm - Blu Grande - Borealis - Borealis Stepping Stone - Dunes - Everest Rectangle (250 x 500) - Everest Square (500 x 500) - Flagstone - Hexa 60 mm - Inca - Industria Slab (60 mm) - Maya - Ocean Grande - Para - Travertina Raw - All products from traffic type 1
ICI (Industrial, Commercial and Institutional)	<b>3. Pedestrian</b>  Pedestrian only and at all times, without cars, or trucks or other mobile equipment (ex. terraces, parks, pedestrian walkways)	Adjustable pedestal applications: - Blu Grande - Industria Slab (60 mm) - Para 500x750 - Raffinato 14"x28" (60 mm) (see Caps section)



# INSTALLATION GUIDE

## SLABS

### 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 continue.
- B. When excavating, it is important to achieve a slope in increments of  $\frac{3}{4}$ " per ft (5 mm per 300 mm) which will allow for proper drainage. The excavation should mirror final grade of pavement.
- C. The width of the base behind the edge should be equivalent to the thickness of the base.
- D. With the help of 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 membrane 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 the 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 achieve 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 isn't properly graded and smooth, imperfections will be evident in the finishing grade of the pavement.
- B. Once the setting bed is graded, pre-compact with a hand tamper, then lightly fluff.

#### 04 INSTALLATION OF SLABS

- A. Once the choice of slabs and the design have been finalized, it is recommended you start installing the slabs at a 90-degree angle. To obtain a 90-degree angle, use the rule of a 3/4/5-triangle. To do this, 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, and the result will be a perfect 90-degree angle. While installing the slabs, walk on the installed slabs 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 blends. 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 concrete saw. When cutting slabs, we recommend you wear protective ear and eyewear.
- D. Once you finish installing the slabs, you can then install Belgik, Pietra, Tundra, or Avignon curbstone. To keep curbs in place, add mortar along the back between the ground and the curbstone or, when available, use their plastic retention systems.

#### 05 FILLING IN JOINTS

- A. Spread out the polymer stabilizer sand on the slabs, and sweep in between joints in all directions.
- B. Remove excess sand and follow the instructions exactly as indicated on the polymer stabilizer sand packaging.
- C. The use of a vibrating plate is not recommended on slabs.



# INSTALLATION GUIDE

## SLABS



### VIBRATING PLATE ALERT!

We do not recommend passing the vibrating plate on slabs.

### THICKNESS OF THE GRANULAR FOUNDATION<sup>1</sup>

RESIDENTIAL PROJECTS	TYPE OF EXISTING SOIL	
	Clayey or Silty <sup>2</sup>	Sandy or Gravelly
Patios and Walkways	6" to 8" (150 to 200 mm) Minimum	4" to 6" (100 to 150 mm) Minimum

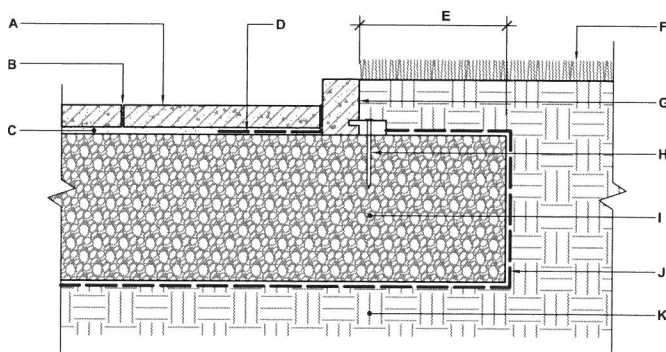
1. Data shown in this chart are provided as guidelines only. The range of values suggested depends particularly on existing soil conditions. The thicker the granular foundation, the greater the increase in stability of the whole structure.
2. In the case of unstable soils or ones particularly affected 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

Approximate surface coverage per 50 lbs (22.7 kg) polymeric sand bag.

SLABS	size	sq. ft	sq. m
Aberdeen	30×30	483	44.87
	30×20	388	36.05
	30×10	243	22.56
	20×20	324	30.07
	20×10	216	20.08
Blu 60 mm		90.2	8.37
Blu 60 mm (6"×13")		42.63	3.96
Blu Grande	60×495×825	118.49	11.01
Blu 45 mm see Overlay section		93	9.5
Borealis	2.25×5×30	124.64	11.58
	2.25×10×30	233.03	21.65
Borealis Stepping Stone	Variable		
Dunes		277.0	26.00
Everest	250×250	179	16.63
	250×500	223	20.00
	500×500	336	31.00

SLABS	size	sq. ft	sq. m
Flagstone		49.5	4.6
Hexa 60 mm		101.2	9.40
Inca		108.3	10.06
Industria 600 series	600×600×60	204.13	18.96
Maya	Variable		
Ocean Grande		129.7	12.1
Pacific see Overlay section		246.0	22.90
Para	500×250	223	20
	500×500	336	31
	500×750	405	37
Travertina Raw	30×30	483	44.87
	30×20	388	36.05
	20×20	324	30.07
	20×10	216	20.08



SLAB INSTALLATION

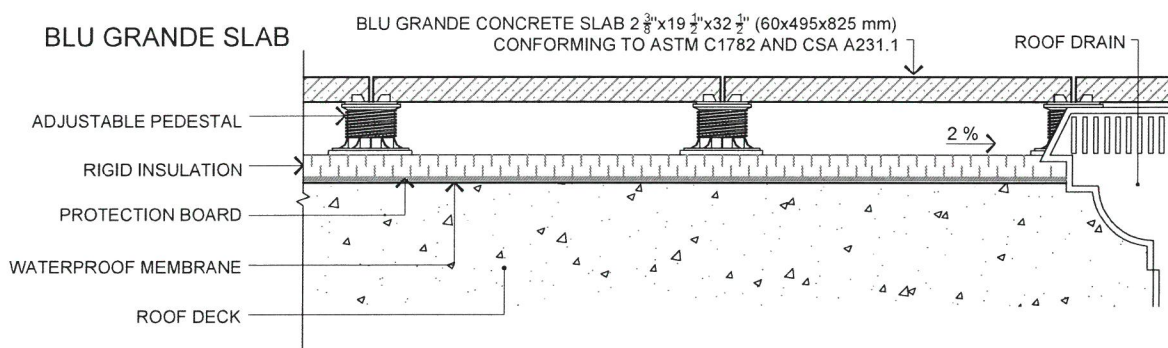
Typical cross section

- A. TECO-BLOC PRECAST CONCRETE SLAB 1 3/4" TO 2 3/8" (45 TO 60 mm)
- B. SAND JOINT FILL
- C. SAND SETTING BED (CONCRETE SAND) 1" (25 mm)
- D. GEOTEXTILE 12" (300 mm) WIDE
- E. EXTRA WIDTH EQUAL TO FOUNDATION THICKNESS
- F. LAWN
- G. EDGE RESTRAINT
- H. NAIL
- I. COMPACTED GRANULAR BASE 0-3/4" (0-20 mm)
- J. GEOTEXTILE
- K. SUBGRADE

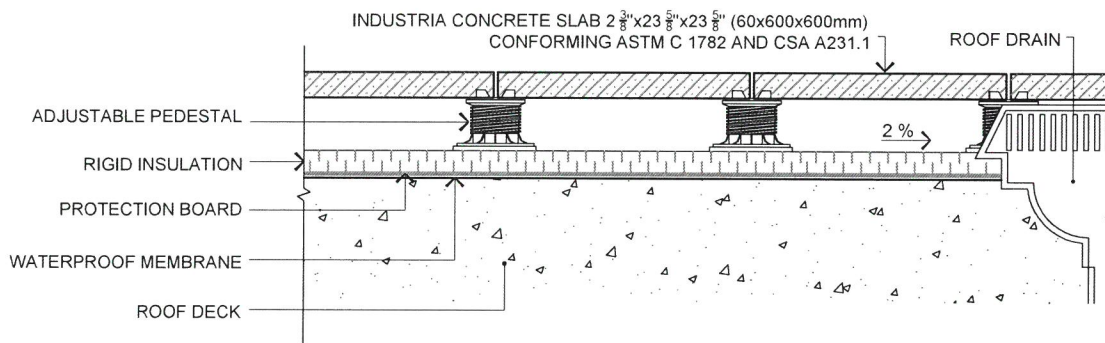


# INSTALLATION GUIDE

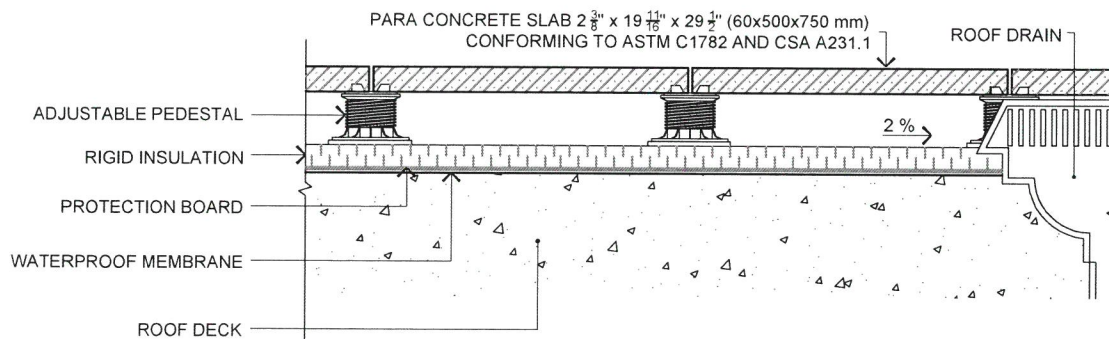
## SLABS ON PEDESTAL SET



## INDUSTRIA SLAB



## PARA SLAB 500x750



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



# TURF FACTORY DIRECT

Artificial Turf for Landscape





