

A grid paving system of perforated slabs, made of concrete and in a square format of 45 x 45, which acts as a semi-vegetative base on a horizontal or sloped surface. It is suitable for planting grass blankets in urban environments, preventing the formation of puddles and protecting it from erosion caused by the presence of pedestrians, and the occasional presence of light vehicles.

Concrete |  45 cm |  25 kg

 Update 19.06.2025



ORIGIN

Checkerblock 45 is the evolution of the design presented in 1992. As its name suggests, it is a slab that creates a checkerboard pattern in urban spaces, acting as a confinement for the fertile substrate in which grass grows.

DESIGN

The square geometry of each piece is in the form of a mesh that contains 9 pavers, each 7.5 cm wide, connected by concrete ribs that are hidden beneath the vegetation. Their cross section permits the optimum development and growth of the grass which colonises the empty spaces in different Grassing proportions. Due to its high drainage capacity, it maintains the natural rainwater cycle, re-injecting it into the groundwater.

MATERIAL

Pressed concrete slabs, with 20% recycled aggregates, in a 45x45 cm format and 10 cm thick, with a fine, non-slip smooth texture and grey color.

SUSTAINABILITY

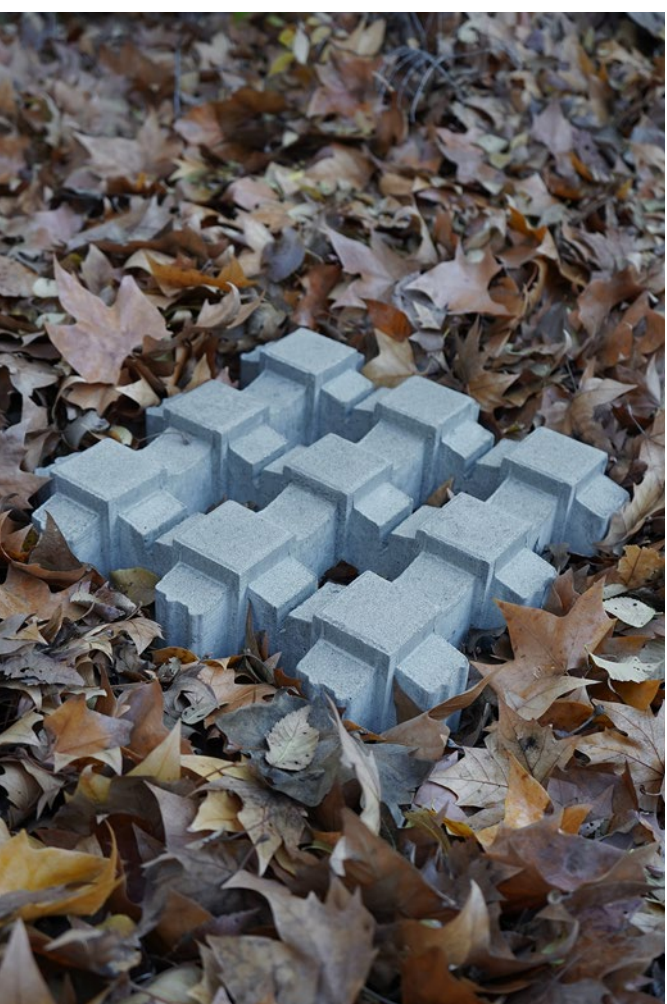
It combats soil erosion caused by traffic, water, and wind effects, and prevents vegetation displacement by providing excellent drainage through its holes. Permeable area of 37% and drainage capacity of 13500 mm/h.

INSTALLATION

With a unit weight of approximately 25 kg, the slabs are placed on a compacted sand bed with a thickness of 4-6 cm, which in turn is spread over a bed of levelled P.M 95% compacted soil (UNE 103-501-94). It is then filled with topsoil before sowing, or just with sand. Suitable for both pedestrian and light to medium vehicular traffic.



CHECKERBLOCK 45



1. Pavement

Checkerblock 45

Dimensions 45 x 45 x 10 cm

Weight 25 kg

1.1 General features

Material Concrete 20% recycled aggregates Fixing Over sand bedding

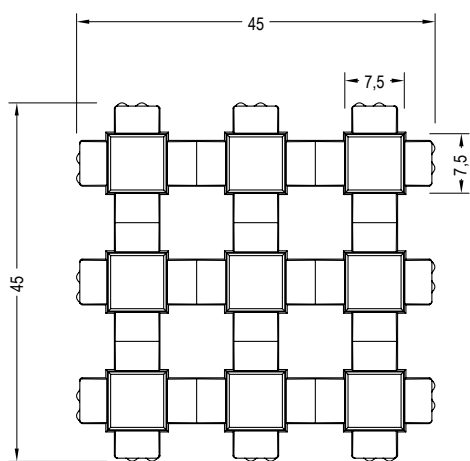
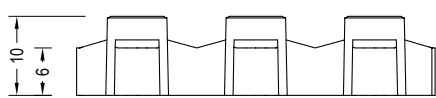
Finish Non-slip texture Regulation UNE-EN 1339/2004

Colours

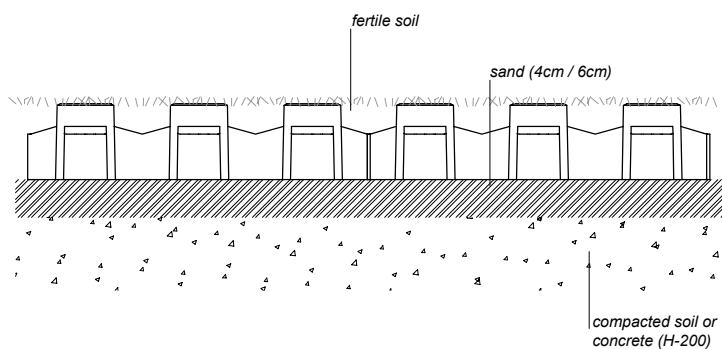


GR. Grey

1.2 Geometry

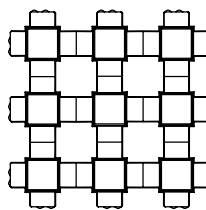


Fixing



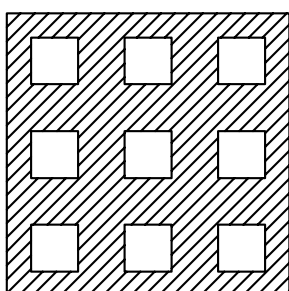
1.3 Physical Properties

Checkerblock 45



PROPERTIES		DEMANDING MORE CLASS	
Thickness		Class 2 Marked P $\pm 3\text{mm}$	$\pm 3\text{ mm}$
Tolerances		Class 2 Marked P $\pm 2\text{mm}$	$\pm 2\text{ mm}$
Bend strength		Class 3 Marked U $< 5\text{MPa}$	$\geq 5\text{MPa}$
Water absorption		Class 2 Marked B $< 6\%$	$\leq 6\%$
Frost resistance		Class 3 Marked D $< 1,0\text{Kg/m}^2$	$\leq 1,0\text{ Kg/m}^2$
Friction Wear resistance		Class 4 Marked I $< 20\text{mm}$	$\leq 20\text{ mm}$
Breaking load		Class 70 Marked 7 $\geq 7\text{ KN}$	$\geq 7\text{ KN}$
Slip resistance		Class 3 Rd > 45	Rd > 45
Type of traffic		Not required	Pedestrian / Service vehicles occasional passing until 900kg per wheel.
Unshaded		Not required	Low

1.4 Green surface



CHECKERBLOCK 45



Warranty

5 years in all its components.

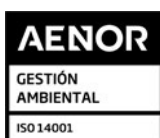
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GA-2005/0072



SST-0090/2010



ER-0403/2016

