

Sigma Concrete Block Paving

Technical Data Sheet



Urban Bronze



Urban Bronze



Urban Slate

Description

Sigma is a contemporary block paving infused with ChromaBlock Technology. This advanced technology accentuates Sigma's two unique shades - Urban Slate and Urban Bronze, both showcasing rich, radiant colours that bring life to any landscape.

Application

Suitable for most applications, Sigma is equally appropriate for small domestic and residential projects as it is for lightly traffic applications.

Product Type	Precast concrete modular block paving.
Manufacturing Process	Semi Dry pressed and vibrated concrete.
Manufacturing Standard	BS EN 1338: 2003
Design Standard	BS 7533-101: 2021
Installation Standard	BS 7533-102: 2025
UKCA/DOP	Contact Brett for more information
NBS Specification	45-20-64/400 Precast concrete paving blocks Q24 110 112 113

Product Performance

Nominal Dimensions (mm)	Working Dimensions (mm)	No.per pack	m2 per pack	No.per m2	Pack wt max kg
300x100x60	300x100x60	288	8.64	33.33	1300

Tolerances on Working Dimensions	Class 2 tolerances on dimensions, Plan Size \pm 2mm; Thickness \pm 3mm
Tensile Strength	Characteristic tensile splitting strength \geq 3.6 Mpa; Failing load \geq 250 N/mm
Abrasion Resistance	Class 4 - \leq 20mm - Determined by Wide Wheel Abrasion Test
Durability (Freeze Thaw)	Class 3 \leq 1,0kg/m ² with no individual result $>$ 1,5kg/m ²
Slip Skid Resistance	PTV Unpolished Slip Resistance Value \geq 55 - Potential for slip - Low
Thermal Conductivity	1.2 W/(mK)
External Fire Performance	Deemed to satisfy, see commission decision 2000/553/EC
Reaction to Fire	Class A1, see commission decision 2000/605/EC

Sustainability

BREEAM	Concrete Block Paving 60mm: A rating, as per the BRE Green Guide, 4th Edition 2009, A+ rating can be achieved when used in conjunction with a prepared recycled sub-base. Responsible Sourcing of Concrete Products (Rating: Excellent)
BES 6001	
Recyclable	
Brett 5-Star Sustainability Rating Embodied Carbon	100% of this product can be recycled. =5

Nominal Dimensions (mm)	kg CO2-eq per m2		
	50mm	60mm	80mm
300x100	-	25.83	-

Early Life and Maintenance

Once your paving has been installed, you may notice some changes to its appearance in the first few days and weeks. These visual changes can be due to a number of reasons originating from the concrete and/or the manufacturing or installation method. Many of these will simply weather away, including:

Efflorescence	The ongoing chemical reaction within the concrete which provides its strength can produce calcium carbonate (a white powdery residue) which may appear on the surface of products. This temporarily lightens the product
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	but will typically weather away without reoccurrence.
Porosity	Concrete continues to cure for many years after manufacture. Whilst this happens and usually during its initial life, a level of porosity may exist where some product retains water, giving a damp appearance. This will diminish as the concrete continues to harden as the product dries out.
Aged and distressed products	For certain products, we distress the edges to offer an aged appearance and enhance the character of the paving. A dusty residue can be left on the blocks. This will weather away.
Differential Curing	Dark patches occasionally appear on the surface of concrete products. This may be differential curing and is caused by varying moisture levels within the flag drying at different rates. Like efflorescence, given time and the natural weathering process, these patches will become less visible.