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Beta Block Paving
Technical Data Sheet

Brindle

Autumn Gold

Brindle

Burnt Oak

Charcoal

Silver Haze

Description

Featuring clean lines and flat surfaces with minimal edge chamfers, Brett Beta Paving provides a smooth, hardwearing block paving surface.

Application

Brett Beta is suitable for a wide variety of designs in both domestic and commercial environments. Its minimal edge chamfer detail is particularly useful for retail parking applications, due to the flat surface that can be created.

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
105x140x60	105x140x60	672	9.88	68	1243
140x140x60	140x140x60	504	9.88	51	1310
210x140x60	210x140x60	344	10.12	34	1342
105x140x80	105x140x80	432	6.35	68	1140
140x140x80	140x140x80	324	6.35	51	1125
210x140x80	210x140x80	232	6.62	34	1215
Mixed Trio Pack					
105x140x60 (Barrow)	105x140x60	104		-	
140x140x60 (Barrow)	140x140x60	156	9.20	-	1204
210x140x60 (Barrow)	210x140x60	156		-	
105x140x60 (Cliffe)	105x140x60	104		-	
140x140x60 (Cliffe)	140x140x60	150	8.94	-	1160
210x140x60 (Cliffe)	210x140x60	152		-	
105x140x60 (Poole)	105x140x60	120		-	
140x140x60 (Poole)	140x140x60	120	9.41	-	1232
210x140x60 (Poole)	210x140x60	180		-	

Tolerances on Working Dimensions	Class 2 tolerances on dimensions, Plan Size ± 2mm; Thickness ± 3mm
Tensile Strength	Characteristic tensile splitting strength ≥ 3.6 Mpa; Failing load ≥ 250 N/mm
Abrasion Resistance	Class 4 - ≤ 20mm - Determined by Wide Wheel Abrasion Test
Durability (Freeze Thaw)	Class 3 ≤ 1,0kg/m² with no individual result > 1,5kg/m²
Slip / Skid Resistance	PTV Unpolished Slip Resistance Value ≥ 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. **Concrete Block Paving 80mm:** B 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.
BES 6001	Responsible Sourcing of Concrete Products (Rating: Excellent)
Recyclable	100% of this product can be recycled.
Brett 5-Star Sustainability Rating	=3

Embodied Carbon

Nominal Dimensions (mm)	kg CO2-eq per m2		
	50mm	60mm	80mm
Single Size			
105x140	-	15.78	19.16
140x140	-	16.44	19.24
210x140	-	16.87	19.49
Mixed Trio Pack (Barrow)	-	17.5	-
Mixed Trio Pack (Cliffe)	-	14.02	-
Mixed Trio Pack (Poole)	-	16.87	-

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 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.