

# Zeta Lock Block Paving Technical Data Sheet



Charcoal



Charcoal



Natural

## Description

Designed to provide the greatest possible interlock between blocks, Brett Zeta Lock paving blocks' sixteen-sided design offers maximum pavement rigidity.

## Application

Zeta Lock is ideal for use in heavily trafficked areas and larger commercial applications, such as ports, container yards and airports.

<b>Product Type</b>	Precast concrete modular block paving.
<b>Manufacturing Process</b>	Semi Dry pressed and vibrated concrete.
<b>Manufacturing Standard</b>	BS EN 1338: 2003
<b>Design Standard</b>	BS 7533-101: 2021
<b>Installation Standard</b>	BS 7533-102: 2025
<b>UKCA/DOP</b>	Contact Brett for more information
<b>NBS Specification</b>	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
205x102.5x80	205x102.5x80	308	6.42	48	1067
<b>Closure Packs</b>					
205x102.5x80	205x102.5x80	190	10.08	-	1650
102.5x102.5x80	102.5x102.5x80	580	10.08	-	1650

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

## Sustainability

<b>BREEAM</b>	<b>Concrete Block Paving 80mm:</b> 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.
<b>BES 6001</b>	Responsible Sourcing of Concrete Products (Rating: Excellent)
<b>Recyclable</b>	100% of this product can be recycled.

Nominal Dimensions (mm)	kg CO2-eq per m2		
	50mm	60mm	80mm
205x102.5	-	-	16.04
Closure Packs	-	-	16.04

## 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:

<b>Efflorescence</b>	The ongoing chemical reaction within the concrete which provides its strength can produce calcium carbonate (a white powdery
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	<p>residue) which may appear on the surface of products. This temporarily lightens the product but will typically weather away without reoccurrence.</p>
<p><b>Porosity</b></p>	<p>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.</p>
<p><b>Aged and distressed products</b></p>	<p>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.</p>
<p><b>Differential Curing</b></p>	<p>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.</p>