

# Alpha Block Paving Technical Data Sheet



Autumn Gold & Silver Haze



Autumn Gold



Brindle



Burnt Oak



Charcoal



Silver Haze

## **Description**

Designed with a traditional, aged appearance, Brett Alpha is a modular surface tumbled paving unit, and is available in three plan sizes as well as a mixed sized TRIO pack.

## **Application**

Equally suited to small residential projects and large urban and commercial installations, Alpha enhances a wide range of property types and styles.

<b>Product Type</b>	Aged/distressed 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
105x140x50	105x140x50	732	10.76	68	1155
140x140x50	140x140x50	552	10.82	51	1155
210x140x50	210x140x50	368	10.82	34	1155
105x140x60	105x140x60	702	10.32	68	1340
140x140x60	140x140x60	528	10.35	51	1340
210x140x60	210x140x60	352	10.35	34	1340
105x140x80	105x140x80	510	7.50	68	1369
140x140x80	140x140x80	384	7.53	51	1375
210x140x80	210x140x80	256	7.53	34	1375
<b>Mixed Trio Pack:</b>					
105x140x50	105x140x50	128		-	
140x140x50	140x140x50	180	10.82	-	1180
210x140x50	210x140x50	184		-	
105x140x60	105x140x60	104		-	
140x140x60	140x140x60	150	8.94	-	1160
210x140x60	210x140x60	152		-	

<b>Tolerances on Working Dimensions</b>	Class 2 tolerances on dimensions, Plan Size $\pm 2\text{mm}$ ; Thickness $\pm 3\text{mm}$
<b>Tensile Strength</b>	Characteristic tensile splitting strength $\geq 3.6\text{ Mpa}$ ; Failing load $\geq 250\text{ N/mm}$
<b>Abrasion Resistance</b>	Class 4 - $\leq 20\text{mm}$ - Determined by Wide Wheel Abrasion Test
<b>Durability (Freeze Thaw)</b>	Class 3 $\leq 1,0\text{kg/m}^2$ with no individual result $> 1,5\text{kg/m}^2$
<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 50-60mm:</b> 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. <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.
<b>Brett 5-Star Sustainability Rating</b>	=3

## Embodied Carbon

Nominal Dimensions (mm)	kg CO2-eq per m2		
	50mm	60mm	80mm
Single Size			
105x140	11.89	13.19	15.35
140x140	11.80	13.2	15.18
210x140	11.63	13.2	15.35
Mixed Trio Pack	11.77	13.2	-

## 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 several 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 residue) which may appear on the surface of products. This temporarily lightens the product but will typically weather away without reoccurrence.
<b>Porosity</b>	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.
<b>Aged and distressed products</b>	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.
<b>Differential Curing</b>	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.