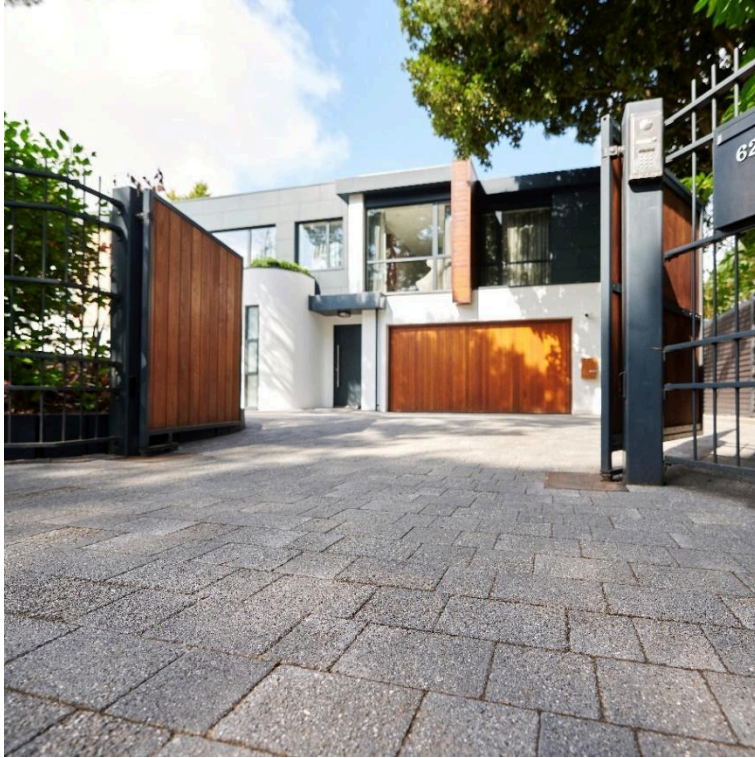


# Lugano Block Paving Technical Data Sheet



Graphite Grey



Graphite Grey



Misty Grey



Rosa

## Description

A distinctive range of granite aggregate block paving, Brett Lugano provides a fully integrated solution to designers looking to create cool, contemporary spaces.

## Application

Suitable for most applications, Lugano is equally appropriate for small domestic and residential projects as it is for large urban commercial jobs.

<b>Product Type</b>	Textured 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
<b>Single Size Pack</b>					
200x100x60	200x100x60	404	8.08	50	1300
210x140x60	210x140x60	288	8.46	34	1200
300x100x60	300x100x60	288	8.64	33.3	1300
200x100x80	200x100x80	336	-----	50	1327
200x200x80	200x200x80	168	-----	25	1327
300x200x80	300x200x80	112	6.72	16.66	1328
300x100x80	300x100x80	224	-----	33.33	1327
<b>Mixed Trio Pack:</b>					
105x140x60	105x140x60	108	-----	68	-----
140x140x60	140x140x60	162	9.53	51	1410
210x140x60	210x140x60	162	-----	34	-----
105x140x80	105x140x80	84	-----	68	-----
140x140x80	140x140x80	126	7.41	51	1460
210x140x80	210x140x80	126	-----	34	-----

<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 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>	=4

## Embodied Carbon

Nominal Dimensions (mm)	kg CO2-eq per m2		
	50mm	60mm	80mm
200x100	-	26.28	39
210x140	-	27.98	39
300x100	-	29.69	39
300x200	-	-	39.01
<b>Mixed Trio Pack</b>		29.21	38.91

## 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 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.