

Umbriel Granite



Granite paving is a popular choice in urban design because of its strong, hard-wearing properties and excellent weather resistance. Umbriel Granite pavers are a dark grey stone suitable for most areas subject to pedestrian and vehicular traffic. These granite paving slabs are available in several finishes - blasted, flamed and honed, which is ideal for the non-trafficked feature elements of your scheme, such as street furniture, copings and masonry. This versatile granite is available across all product areas, including paving, setts, kerbs, tactile steps, street furniture and other specialised masonry items to help create a complementary streetscape. All Marshall's granites are fully tested to the appropriate standards in the UK and where relevant UKCA marked in accordance with the latest legislation.

DESCRIPTION	
Appearance	Mid grey Granite with large white and small black inclusions
Manufacturing Process	Sawn
Geological Type	Granite
Quarry Location	Porto, Portugal
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1341 : 2012, BS EN 1342 : 2012 & BS EN 1343 : 2012
Petrographical Description	Pale grey to blue coarse grained Granite
UKCA Marking/DOP	www.marshalls.co.uk/declarations

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PHYSICAL PROPERTIES

Nominal Dimensions (mm)	Various Sizes Available, please contact our Sales Office
Tolerances on Work Dimensions (mm)	Paving Class 1 tolerances to all dimensions as standard, Setts Class 2 tolerances to all dimensions as standard, Kerbs Class 2 tolerances to all dimensions as standard, Others by agreement
Abrasion Resistance (mm)	19.12mm (Mean value to EN 14157:2017 (Hev = 19.43mm))
Durability (Freeze-thaw)	17.4/16.3 MPa (Mean values to EN 12371 : 2006)
Material Density	2629 kg/m ³ (Mean value to EN 1936 : 2006)
Open Porosity (%)	0.63% (Mean value to EN 1936 : 2006)
Slip Resistance (Dry)	Blasted 97 Flamed 90 Honed 70
Slip Resistance (Wet)	Blasted 79 Flamed 81 Honed 46
Transverse/Flexural Split/Breaking	16.8 MPa (Mean value to EN 12372 : 2022 (Lev = 17.03 MPa))
LRV Range	Blasted 42.47 Flamed 39.55 Honed 26.85
Surface Roughness (Rz - µm)	Blasted 144.47 Flamed 132.93 Honed 9.08
Compressive Strength (Mpa)	114.83 MPa (Mean value to EN 1926 : 2006 (Lev = 100.54 MPa))
Water Absorption (%)	0.23% (Mean value to EN 13755 : 2008 (Hev = 0.26%))

SUPPLY

Packaging	Crated
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FURTHER INFORMATION

Cleaning & Maintenance	Available on request
Contact Us	For technical information on the design, specification and construction when utilising the product, contact Group Technical Services on 0370 411 2233