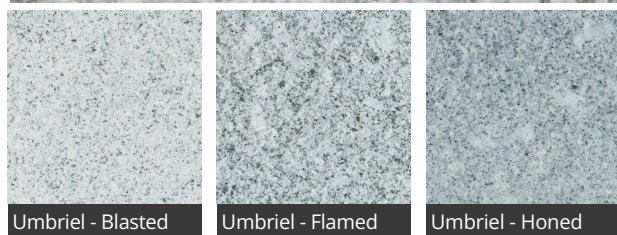


# Umbriel Granite

Date Created: 19/01/22



\*It should be noted that colour variations and markings are characteristic of Natural Stone. Inherent variations cannot be controlled nor the precise shade of stone guaranteed.

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 Marshalls 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 of Origin	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	<a href="https://www.marshalls.co.uk/declarations">https://www.marshalls.co.uk/declarations</a>

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## PHYSICAL PROPERTIES

Work Dimensions (mm)	450 x 450 x 50
	450 x 450 x 60
	450 x 450 x 70
	900 x 450 x 50
	900 x 450 x 60
	900 x 450 x 70
	600 x 600 x 50
	600 x 600 x 60
	600 x 600 x 70
	900 x 600 x 50
	900 x 600 x 60
	900 x 600 x 70
	200 x 100 x 50
	200 x 100 x 60
	200 x 100 x 70
	300 x 100 x 50
	300 x 100 x 60
	300 x 100 x 70
	300 x 150 x 50
	300 x 150 x 60
300 x 150 x 70	
300 x 200 x 50	
300 x 200 x 60	
300 x 200 x 70	

Abrasion Resistance (mm) 17mm (Mean value to EN 14157 : 2004 (Hev = 17.6mm))

Durability (Freeze-thaw) 17.4/16.3 MPa (Mean values to EN 12371 : 2006)

Material Density 2602 kg/m<sup>3</sup> (Mean value to EN 1936 : 2006)

Open Porosity (%) 0.60% (Mean value to EN 1936 : 2006)

Compressive Strength (MPa) 95 MPa (Mean value to EN 1926 : 2006 (Lev = 85 MPa))

Water Absorption (%) 0.30% (Mean value to EN 13755 : 2002 (Hev = 0.34%))

Transverse/FlexuralSplit/Breaking 19.64 MPa (Mean value to EN 12372 : 2006 (Lev = 17.39 MPa))

## TEXTURE SPECIFIC PROPERTIES

	Flamed	Blasted	Honed
Light Reflectance Value (LRV)	36.71	36.99	27.76
Surface Roughness (Rz-µm)	>75	>75	19
Slip Resistance (BS 14231) (Dry)	95	95	67
Slip Resistance (BS 14231) (Wet)	69	70	44

## MANUFACTURING

Materials Control UKCA Marked to BS EN 1341 Paving

## SUSTAINABILITY

ERI Score Our Score: 4.2  
Cluster Score: 3.6

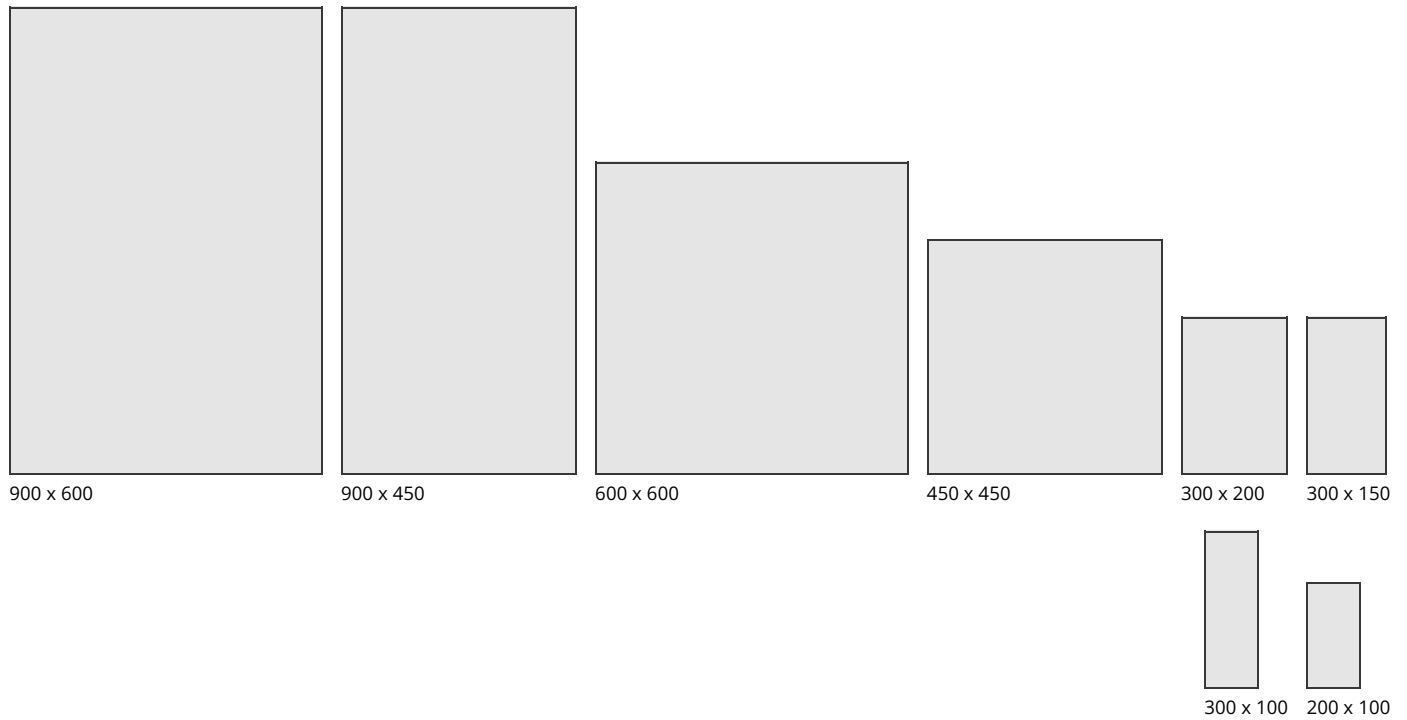
## FURTHER INFORMATION

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

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## Suggested Plan Sizes



The plan sizes shown above illustrate popular sizes of our Natural Stone. Bespoke sizes are available upon request.

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