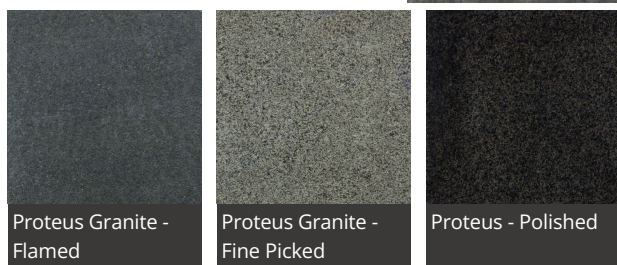


# Proteus Granite

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.

Proteus Granite is a striking black stone. Available in flamed and fine picked finishes, it is suitable for pedestrian or vehicular trafficked areas.

Granites are generally hard wearing, strong and durable. They provide a modern aesthetic and can be fashioned into a wide range of Landscape products.

Proteus Granite is available for all product areas including paving, setts, kerbs, tactile, steps, water management, street furniture or other bespoke specialised masonry items such as veneers for planters or furniture.

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	Grey green with fine black inclusions
Manufacturing Process	Sawn
Geological Type	Diorite
Quarry of Origin	Hebei Province, China
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	Dark grey green coarse grained Diorite
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) 16mm (Mean value to EN 14157 : 2004 (Hev = 16.5mm))

Durability (Freeze-thaw) 23.7/22.4 MPa (Mean values to EN 12371 : 2006)

Material Density 2830 kg/m<sup>3</sup> (Mean value to EN 1936 : 2006)

Open Porosity (%) 0.56% (Mean value to EN 1936 : 2006)

Compressive Strength (MPa) 180 MPa (Mean value to EN 1926 : 2006 (Lev = 151 MPa))

Water Absorption (%) 0.1% (Mean value to EN 13755 : 2002 (Hev = 0.1%))

Transverse/FlexuralSplit/Breaking 20.2 MPa (Mean value to EN 12372 : 2006 (Lev = 17.8 MPa))

## TEXTURE SPECIFIC PROPERTIES

	Polished	Flamed	Fine Picked
Light Reflectance Value (LRV)	6.5	21.54	20.62
Surface Roughness (Rz-µm)	3	41.5	>75
Slip Resistance (BS 14231) (Dry)	78	82	87
Slip Resistance (BS 14231) (Wet)	15	58	64

## MANUFACTURING

Materials Control UKCA Marked to BS EN 1341 Paving

## SUSTAINABILITY

ERI Score Our Score: 1  
Cluster Score: 0.7

## FURTHER INFORMATION

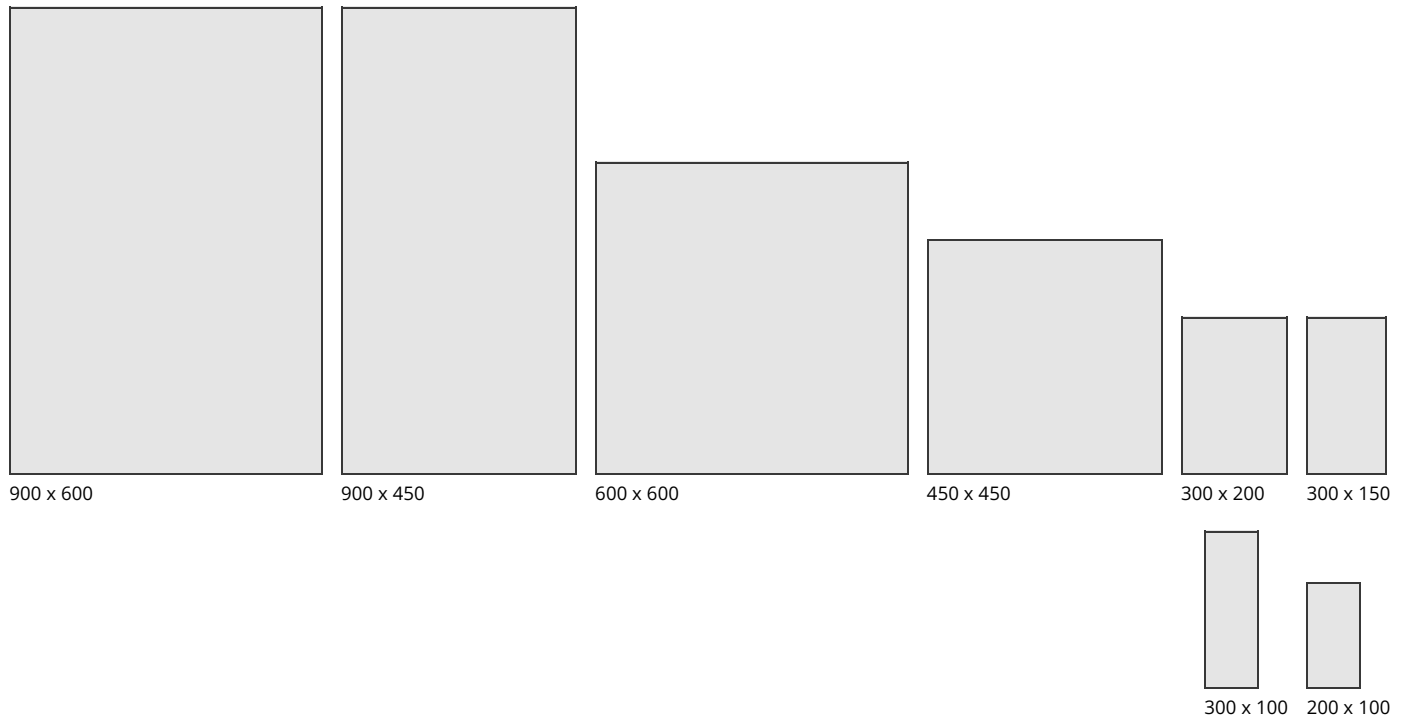
Cleaning & Maintenance Available on request

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

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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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