



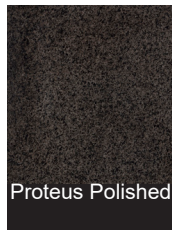
Proteus Granite



Proteus Flamed



Proteus Fine Picked



Proteus Polished

*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 Location	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	www.marshalls.co.uk/declarations



Proteus Granite

PHYSICAL PROPERTIES

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)	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 ³ (Mean value to EN 1936 : 2006)
Open Porosity (%)	0.56% (Mean value to EN 1936 : 2006)
Slip Resistance (Dry)	Polished 78 Flamed 82 Fine Picked 87
Slip Resistance (Wet)	Polished 15 Flamed 58 Fine Picked 64
Transverse/Flexural Split/Breaking	20.2 MPa (Mean value to EN 12372 : 2006 (Lev = 17.8 MPa))
LRV Range	Polished 6.5 Flamed 21.54 Fine Picked 20.62
Surface Roughness (Rz - µm)	Polished 3 Flamed 41.5 Fine Picked >75
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%))

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

