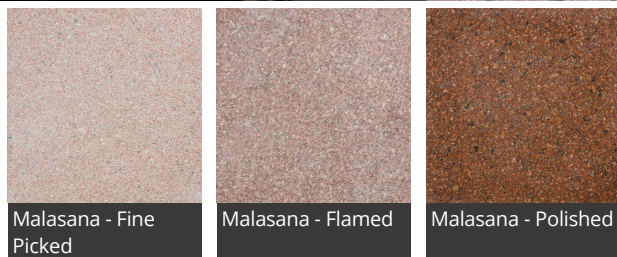


Malasana Granite

Date Created: 26/07/19



*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.

Part of Marshall's extensive range of granite products, Malasana is a natural granite that has a red base with small grey and greenish grains. Granite is traditionally a hard-wearing, strong and durable landscaping material.

Marshall's Malasana Granite is available in three finishes – flamed, polished and fine picked. As well as offering differing aesthetic values, each is suited to different applications. Its inherent strength means Malasana is suitable for both pedestrian and vehicular trafficked areas.

Manufactured to meet ISO9001 quality assurance standards, it is also available as kerbs and setts, street furniture, tactile elements, water management and bespoke items.

DESCRIPTION	
Appearance	Red with Black & white inclusions
Manufacturing Process	Sawn
Geological Type	Granite / Porphyry
Quarry of Origin	Binh Dinh Province, Vietnam
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	Red pink with grey/greenish grains coarse grained Granite/Porphyry
CE Marking/DOP	https://www.marshalls.co.uk/dop

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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
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)	16.5mm (Mean value to EN 14157 : 2004 (Hev = 18.1mm))
Durability (Freeze-thaw)	19.9/16.4 MPa (Mean values to EN 12371 : 2006)
Material Density	2455 kg/m ³ (Mean value to EN 1936 : 2006)
Open Porosity (%)	1.06% (Mean value to EN 1936 : 2006)
Compressive Strength (MPa)	151 MPa (Mean value to EN 1926 : 2006 (Lev = 101 MPa))
Water Absorption (%)	0.34% (Mean value to EN 13755 : 2008 (Hev = 0.39%))
Transverse/FlexuralSplit/Breaking	11.1 MPa (Mean value to EN 12372 : 2006 (Lev = 9.3 MPa))

TEXTURE SPECIFIC PROPERTIES

MANUFACTURING

Materials Control	CE Marked to BS EN 1341 Paving, 1342 Setts, 1343 Kerbs
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SUSTAINABILITY

ERI Score	Our Score: 3.8 Cluster Score: 2.1
Carbon Footprint	
Malasana Granite Paving 300 x RL x 50	94.5 kg CO2 m ²
Malasana Granite Paving 300 x RL x 63	113.4 kg CO2 m ²
Malasana Granite Paving 300 x RL x 75	132.3 kg CO2 m ²
Malasana Granite Paving 450 x 450 x 50	94.5 kg CO2 m ²
Malasana Granite Paving 450 x 450 x 63	113.4 kg CO2 m ²
Malasana Granite Paving 450 x 450 x 75	132.3 kg CO2 m ²
Malasana Granite Paving 450 x 900 x 50	94.5 kg CO2 m ²
Malasana Granite Paving 450 x 900 x 63	113.4 kg CO2 m ²
Malasana Granite Paving 450 x 900 x 75	132.3 kg CO2 m ²
Malasana Granite Paving 450 x RL x 50	94.5 kg CO2 m ²
Malasana Granite Paving 450 x RL x 63	113.4 kg CO2 m ²
Malasana Granite Paving 450 x RL x 75	132.3 kg CO2 m ²
Malasana Granite Paving 600 x 600 x 50	94.5 kg CO2 m ²
Malasana Granite Paving 600 x 600 x 63	113.4 kg CO2 m ²
Malasana Granite Paving 600 x 600 x 75	132.3 kg CO2 m ²
Malasana Granite Paving 600 x 900 x 50	94.5 kg CO2 m ²
Malasana Granite Paving 600 x 900 x 63	113.4 kg CO2 m ²
Malasana Granite Paving 600 x 900 x 75	132.3 kg CO2 m ²

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	Fine Picked	Flamed	Polished
Light Reflectance Value (LRV)	30.33	19.95	15.15
Surface Roughness (Rz-µm)	>75	34	3
Slip Resistance (BS 14231) (Dry)	96	89	68
Slip Resistance (BS 14231) (Wet)	85	66	18

SUSTAINABILITY

Malasana Granite Paving 600 x RL x 50	94.5 kg CO2 m ²
Malasana Granite Paving 600 x RL x 63	113.4 kg CO2 m ²
Malasana Granite Paving 600 x RL x 75	132.3 kg CO2 m ²
Malasana Granite Setts 200 x 100 x 50	94.5 kg CO2 m ²
Malasana Granite Setts 200 x 100 x 63	113.4 kg CO2 m ²
Malasana Granite Setts 200 x 100 x 75	132.3 kg CO2 m ²
Malasana Granite Setts 300 x 100 x 50	94.5 kg CO2 m ²
Malasana Granite Setts 300 x 100 x 63	113.4 kg CO2 m ²
Malasana Granite Setts 300 x 100 x 75	132.3 kg CO2 m ²
Malasana Granite Setts 300 x 150 x 50	94.5 kg CO2 m ²
Malasana Granite Setts 300 x 150 x 63	113.4 kg CO2 m ²
Malasana Granite Setts 300 x 150 x 75	132.3 kg CO2 m ²
Malasana Granite Setts 300 x 200 x 50	94.5 kg CO2 m ²
Malasana Granite Setts 300 x 200 x 63	113.4 kg CO2 m ²
Malasana Granite Setts 300 x 200 x 75	132.3 kg CO2 m ²

FURTHER INFORMATION

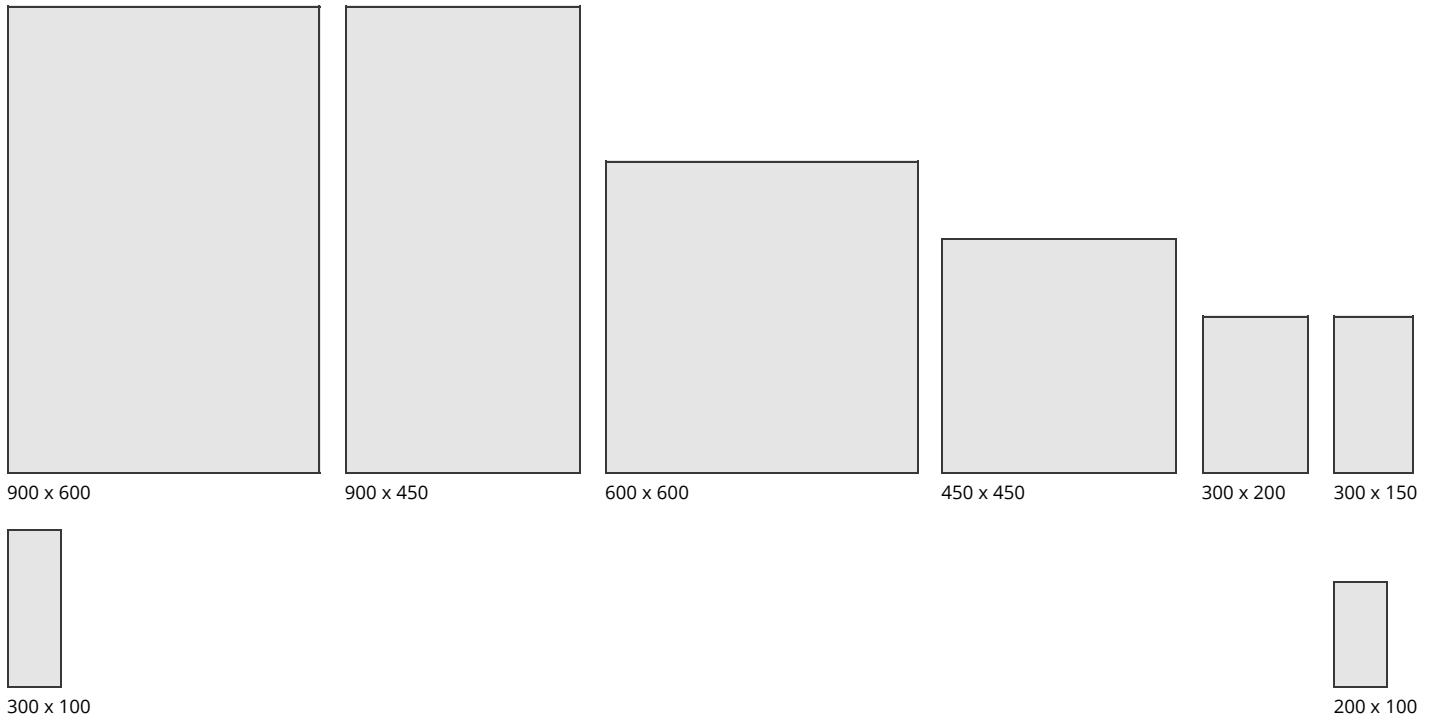
Contact Us	For technical information on the design, specification and construction when utilising the product, contact the Technical Advisory Services Department on 0370 411 2233
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Suggested Plan Sizes



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