Marshalls
Creating Better Spaces

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Elland HX5 9HT
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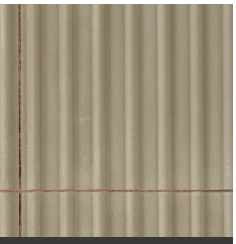
Hazard Warning 400 x 400 x 50

Date Created: 03/08/18

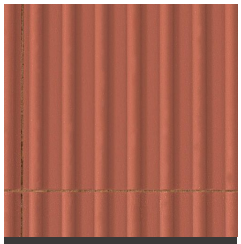




Hazard Warning Tactile Standard - Natural



Hazard Warning Tactile Standard - Buff



Hazard Warning Tactile Standard - Red



Hazard Warning Tactile Standard - Dark Grey

Designed to warn users of potential hazards in the immediate vicinity and to proceed with caution, Hazard Warning Tactile Flag Paving features a raised striped pattern which runs across its surface.

Also referred to as Corduroy paving, this product should be used in accordance with The Disabled Persons Act 1981 and DDA 2004. Hazard Warning Tactile Flag Paving is for use at the top and bottom of steps, level crossings and intersections of shared cycle/pedestrian routes. It should be installed at 90 degrees and 400mm from any potential hazards.

This product is available in a range of colour options – Red, Buff, Natural and Charcoal. Buff and Natural are also available as textured paving. Two different plan sizes feature in the range, 400 x 400mm and 450 x 450mm.

DESCRIPTION	
Appearance	Solid unit with profiled surface
Manufacturing Process	Hydraulically pressed concrete
Base Raw Material	Concrete
Governing Manufacturing Standards	All data where relevant manufactured, but not in compliance, to BS EN 1339 : 2003, as the tactility of paving is excluded from the Scope
CE Marking/DOP	https://www.marshalls.co.uk/dop
NBS Specification	Q25 320

MADE IN BRITAIN
UK Superbrands 2018
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bsi. ISO 14001 Environmental Management
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PHYSICAL PROPERTIES

Tolerances	Minimum (mm)	Maximum (mm)
Length	396	400
Width	396	400
Thickness	47	53
Work Dimensions (mm)	398 x 398 x 50	
Nominal Dimensions (mm)	400 x 400 x 50	
Tolerances on Work Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm	
Abrasion Resistance (mm)	≤ 23mm (Wide Wheel Abrasion Test)	
Durability (Freeze-thaw)	≤ 1.0 kg/m² as a mean with no individual value > 1.5 kg/m²	
Material Density	2300 kg/m³ (typically)	
Slip/Skid Resistance (polished)	Mean polished skid resistance value (PSRV) : > 45	
Slip/Skid Resistance (unpolished)	Mean unpolished skid resistance value (USRV) : > 45.	
Thermal Conductivity (K value)	Design data as defined to BS EN 13369 : 2013	
Transverse/FlexuralSplit/Breaking	Characteristic bending strength of 4.0 MPa with no individual result less than 3.2 MPa	

SPECIFICATION

Approx unit weight (kg)	19
Emission of Asbestos	No content
External Fire Performance	Deemed to satisfy. See commission decision 2000/553/ECU
Reaction to fire	Class A1, see commisson decision 2000/605/EC

SUSTAINABILITY

Breeam	These units can achieve an "A" rated system when used in conjunction with the correct sub-base components
Carbon Footprint	13 kg CO2 m²

APPLICATION

Suitability	Laid in accordance with BS 7533-4 : 2006

SITE WORKS

Coverage	6.25 no per m2

SUPPLY

Av. pack size (m2)	5.8
Units Per Pack	36
Av. pack weight (kg)	684
Packaging	All packs are suitable for crane off-load. Fork lift off-load on request

FURTHER INFORMATION

Cleaning & Maintenance	Information regarding the cleaning & maintenance of this product may be obtained on request
Efflorescence	Any product containing cement during its early life may exhibit a temporary white discolouration known as efflorescence. This is not a product fault and will gradually disappear with exposure to natural weathering and trafficking
Weathering	It should be appreciated that with all products weathering and site conditions can cause shade variation to appear across the surface of individual units. This does not in any way affect the performance of the units and any such variation will diminish over a period of time as the product matures.
Product Evolution	The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Marshalls reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice
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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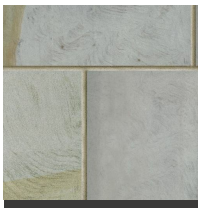
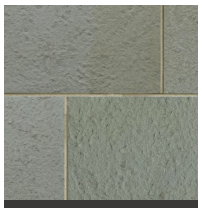
Scoutmoor Yorkstone

Date Created: 07/02/19




Scoutmoor - Diamond Sawn


Scoutmoor - Capital Finish


Scoutmoor - Flamed

*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.

Scoutmoor Yorkstone is a blue grey to brown coloured stone popular in projects across the UK thanks to its impressive technical performance. The strongest type of Yorkstone available in the UK, it is perfect for paved applications thanks to its strength, durability and class-leading slip resistance. Suitable for both pedestrian and trafficked areas, it's a reliable and hardwearing addition to any commercial or public space. As well as paving, Scoutmoor Yorkstone is suitable for setts, kerbs, tactile, steps, water management, special shaped paving and low level masonry veneers for planters and seats.

Textures include Diamond Sawn, Capital finish, and Flamed textured. Fully tested to the appropriate standards and CE marked to the latest legislation, the Scoutmoor quarry and manufacturing works are both ISO9001 accredited, and also meet ISO45001 and ISO14001 standards of health, safety and sustainability.

DESCRIPTION	
Appearance	Blue Grey to Brown fine grained Yorkstone
Manufacturing Process	Sawn
Geological Type	Millstone Grit series, Carboniferous sandstone
Quarry of Origin	Scoutmoor Quarry, Lancashire
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 greenish grey fine grained sandstone
CE Marking/DOP	https://www.marshalls.co.uk/dop

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Scoutmoor Yorkstone

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PHYSICAL PROPERTIES

Work Dimensions (mm)	400 x 300 x 63 450 x 450 x 50 450 x 450 x 63 450 x 450 x 75 900 x 450 x 50 900 x 450 x 63 900 x 450 x 75 600 x 600 x 50 600 x 600 x 63 600 x 600 x 75 900 x 600 x 50 900 x 600 x 63 900 x 600 x 75 200 x 100 x 50 200 x 100 x 63 200 x 100 x 75 300 x 100 x 50 300 x 100 x 63 300 x 100 x 75 300 x 150 x 50 300 x 150 x 63 300 x 150 x 75 300 x 200 x 50 300 x 200 x 63 300 x 200 x 75
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)	18.5mm (Mean value to EN 14157 : 2004 (Hev = 21.3mm))
Durability (Freeze-thaw)	24/21.9 MPa (Mean values to EN 12371 : 2006)
Material Density	2551 kg/m³ (Mean value to EN 1936 : 2006)
Open Porosity (%)	5% (Mean value to EN 1936 : 2006)
Compressive Strength (MPa)	182 MPa (Mean value to EN 1926 : 2006 (Lev = 178 MPa))
Water Absorption (%)	1.96% (Mean value to EN 13755 : 2008 (Hev = 2%))
Transverse/FlexuralSplit/Breaking	21.12 MPa (Mean value to EN 12372 : 2006 (Lev = 21 MPa))

TEXTURE SPECIFIC PROPERTIES

	Diamond Sawn	Capital	Fine Sawn	Flamed
Light Reflectance Value (LRV)	27.83	28.98	27.83	34.97
Surface Roughness (Rz-µm)	41	>75	38	52

MANUFACTURING

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

SUSTAINABILITY

ERI Score	Our Score: 4.3 Cluster Score: 3.3
	Carbon Footprint (KgCO2 each)
Scoutmoor Yorkstone Paving 300 x RL x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 300 x RL x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 300 x RL x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 450 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 450 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 450 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 900 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 900 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x 900 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x RL x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x RL x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 450 x RL x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 600 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 600 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 600 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 900 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 900 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x 900 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x RL x 50	25 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x RL x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Paving 600 x RL x 75	37.5 kg CO2 m²

Supplychain Member (ISM) UK 2018
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TEXTURE SPECIFIC PROPERTIES

Slip Resistance (BS 14231) (Dry)	99	102	88	103
Slip Resistance (BS 14231) (Wet)	85	86	70	69.9

SUSTAINABILITY

Scoutmoor Yorkstone Setts 200 x 100 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Setts 200 x 100 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Setts 200 x 100 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 100 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 100 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 100 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 150 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 150 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 150 x 75	37.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 200 x 50	25 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 200 x 63	31.5 kg CO2 m²
Scoutmoor Yorkstone Setts 300 x 200 x 75	37.5 kg CO2 m²

FURTHER INFORMATION

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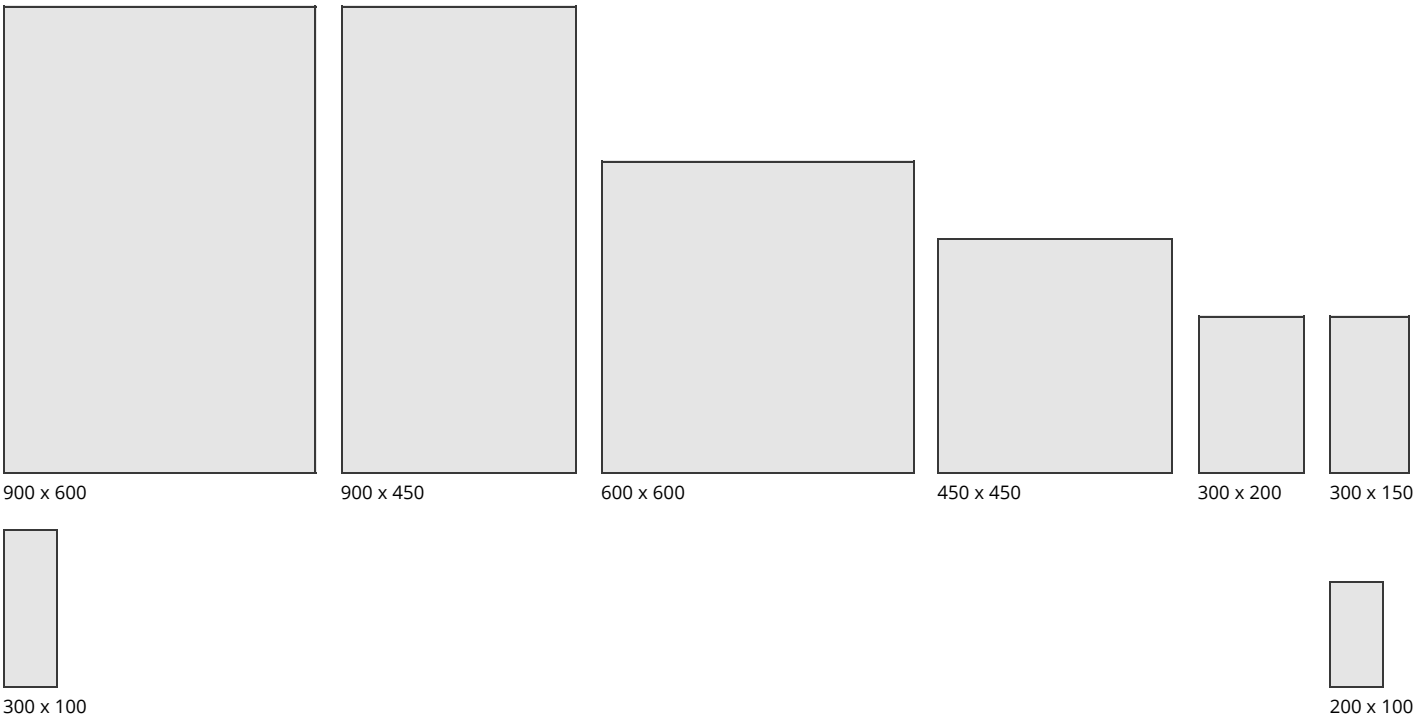
Suggested Plan Sizes



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

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