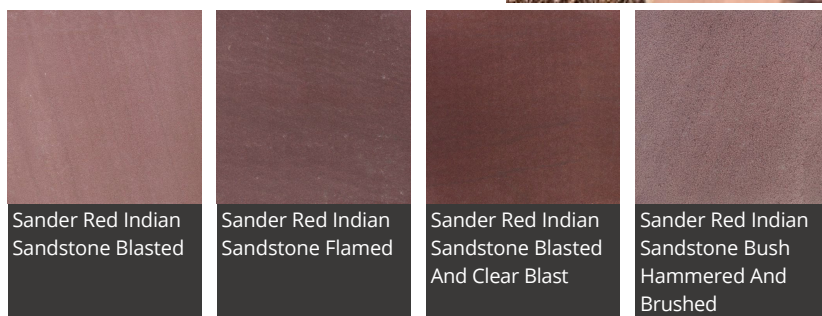


# Sander Red Sandstone

Date Created: 14/10/19



Sander Red Indian Sandstone Blasted

Sander Red Indian Sandstone Flamed

Sander Red Indian Sandstone Blasted And Clear Blast

Sander Red Indian Sandstone Bush Hammered And Brushed

\*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.

Marshalls' Sander Red Indian Sandstone is a durable, hard-wearing landscaping stone that can be deployed in a diverse range of applications.

A warm red sandstone, it is supplied with a blasted finish. Other products and specials may be available by agreement.

Offering the strength sandstones are renowned for, Sander Red is suitable for deployment in both pedestrian and trafficked areas and is able to deal with frequent heavy loads.

Produced to ISO9001 quality assurance standards, it is also accredited to ETI standards.

DESCRIPTION	
Appearance	Red Sandstone
Manufacturing Process	Sawn
Geological Type	Cambrian Sandstone
Quarry of Origin	Kota Region, Rajasthan, India
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 red mainly fine grained sandstone
CE Marking/DOP	<a href="https://www.marshalls.co.uk/dop">https://www.marshalls.co.uk/dop</a>



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## 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)	17.5mm (Mean value to EN 14157 : 2004 (Hev = 19.5mm))
Durability (Freeze-thaw)	33.4/30.1 MPa (Mean values to EN 12371 : 2006)
Material Density	2552 kg/m <sup>3</sup> (Mean value to EN 1936 : 2006)
Open Porosity (%)	3.49% (Mean value to EN 1936 : 2006)
Compressive Strength (MPa)	250 MPa (Mean value to EN 1926 : 2006 (Lev = 228 MPa))
Water Absorption (%)	1% (Mean value to EN 13755 : 2008 (Hev = 1.44%))
Transverse/FlexuralSplit/Breaking	36 MPa (Mean value to EN 12372 : 2006 (Lev = 32.75 MPa))

## TEXTURE SPECIFIC PROPERTIES

	Blasted	Flamed	Blast & Clear Blast	Bush hammered & Brushed
Light Reflectance Value (LRV)	19.2 (Dry), 8.64 (Wet)	15.81 (Dry), 7.44 (Wet)	14.53 (Dry), 6.81 (Wet)	18.31 (Dry), 8.22 (Wet)
Surface Roughness (Rz-µm)	55.8	45.5	72.7	>100
Slip Resistance (BS 14231) (Dry)	95.8	96.8	102.6	94.9
Slip Resistance (BS 14231) (Wet)	81.3	75.9	87.7	72

## MANUFACTURING

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

ERI Score	Our Score: 3.6 Cluster Score: 2.4
Carbon Footprint	
Sander Red Sandstone Paving 300 x RL x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x 450 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x 900 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x RL x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x 600 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x 900 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x RL x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 200 x 100 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 300 x 100 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 300 x 150 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 300 x 200 x 50	101.5 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 300 x RL x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x 450 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x 900 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 450 x RL x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x 600 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x 900 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Paving 600 x RL x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 200 x 100 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 300 x 100 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>
Sander Red Sandstone Setts 300 x 150 x 75	127.89 kg CO <sub>2</sub> m <sup>2</sup>



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## SUSTAINABILITY

Sander Red Sandstone Setts 300 x 200 x 75	127.89 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 300 x RL x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 450 x 450 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 450 x 900 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 450 x RL x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 600 x 600 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 600 x 900 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Paving 600 x RL x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Setts 200 x 100 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Setts 300 x 100 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Setts 300 x 150 x 63	152.25 kg CO2 m <sup>2</sup>
Sander Red Sandstone Setts 300 x 200 x 63	152.25 kg CO2 m <sup>2</sup>

## FURTHER INFORMATION

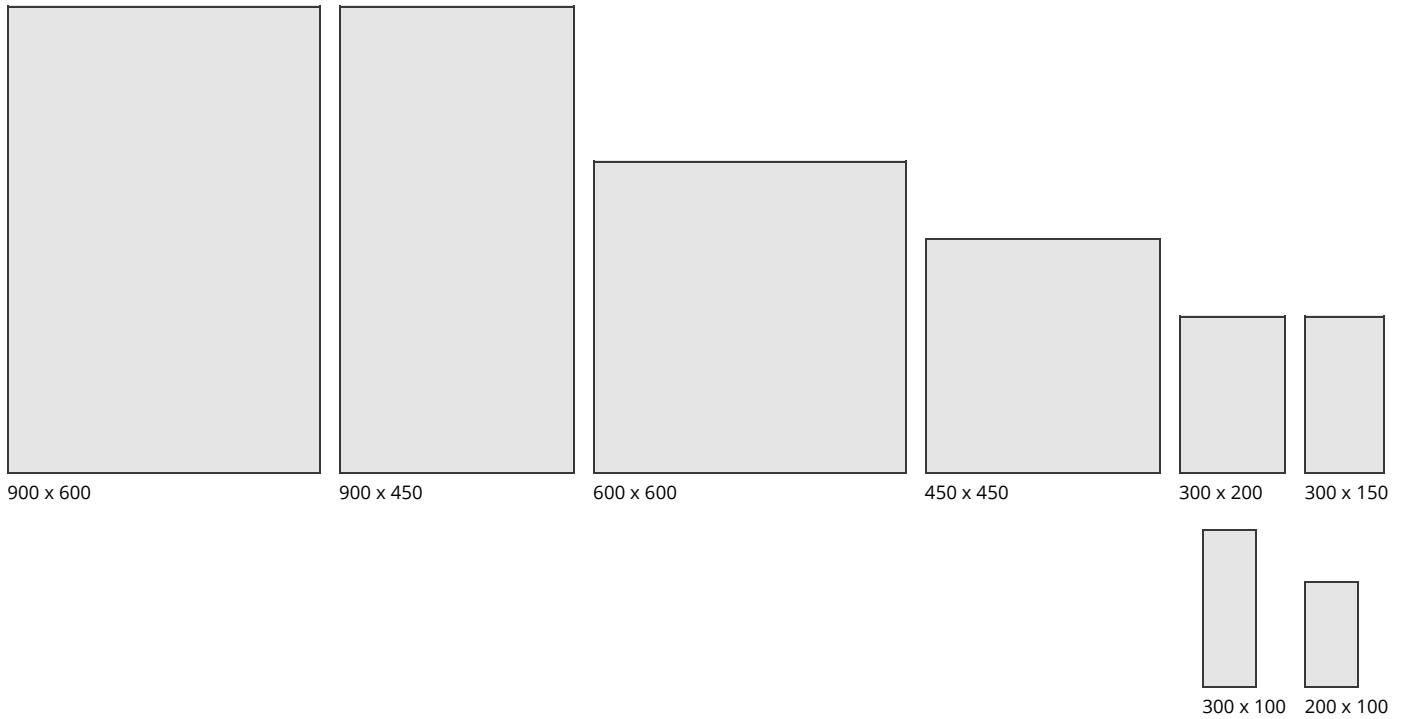
**Contact Us** For technical information on the design, specification and construction when utilising the product, contact Marshalls Group Technical Services on 03704 11 22 33



# Sander Red Sandstone

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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.

