

CONCRETE PAVING BLOCKS

TECHNICAL SPECIFICATION

Attribute	Properties	Test Method + Standards of Compliance
Dimension and Maximum Tolerances	Length \pm 2 mm Width \pm 2 mm Thickness \pm 3 mm	BS EN 1338: 2003 DMS 1: Part 4: 2016
Compressive strength	When a sample of ten blocks is tested, the average compressive strength shall not be less than 49 MPa (N/mm ²) and crushing strength of any individual block shall not be less than 40 N/mm ² .	DMS 1: Part 4: 2016
Tensile splitting strength	The characteristic tensile splitting strength shall not be less than 3.6 MPa. None of the individual results shall be less than 2.9 MPa, nor have a failure load less than 250 N per mm of the splitting length.	BS EN 1338: 2003
Water absorption	When a sample of three blocks is tested in accordance with DMS 1: Part 4: 2016, the average absorption shall not be greater than 5 % with no individual unit greater than 7 %. The average absorption shall not be greater than 6 % when tested in accordance with BS EN 1338: 2003.	DMS 1: Part 4: 2016 BS EN 1338: 2003
Abrasion resistance	When a sample of three blocks is tested in accordance with the Wide Wheel Method, no individual test result shall be greater than 20 mm.	BS EN 1338: 2003 DMS 1: Part 4: 2016
Chloride and sulphate content	When a sample of one block is tested in accordance with BS 1881: Part 124 the acid soluble chloride content (Cl) and the soluble sulphate content (SO ₃) shall not exceed 0.05 % and 0.7 % by mass of concrete respectively.	DMS 1: Part 4: 2016 BS 1881: Part 124: 2015 BS EN 1744 - 1
Unpolished slip resistance value (USRV)	Pendulum Test Value of 40 to 74 indicates low potential for slip. Pendulum Test Value above 75 indicates extremely low potential for slip.	BS EN 1338: 2003
Solar Reflective Index (SRI)	When used as a hardscapes in building projects, 50 % of hardscapes materials shall demonstrate a Solar Reflective Index (SRI) of at least 29. SRI-HS Class 1 (\geq 29) – “Can be used in 50-100% of the hardscapes of the development” SRI-HS Class 2 (<29) – “Can be used in 0-50% of the hardscapes of the development”	DMS 1: Part 4: 2016 ASTM E1980 - 11