

Umbriel Granite

Natural stone paving, setts and kerbs



Description

Appearance	Mid grey Granite with large white and small black inclusions
Geological Type	Granite
Quarry of Origin	Granite from Porto, Portugal
Governing Standards	BS EN 1341:2012, 1342:2012, 1343:2012
Petrographical description	Pale gre to blue coarse grained Granite

Physical Properties

Apparent density	2643	kg/m ³	Mean value to EN 1936 : 2006
Open porosity	0.6	%	Mean value to EN 1936 : 2006
Water absorption	0.20	%	Mean value to EN 13755 : 2008 (Hev=0.2%)
Flexural strength	17.38	Mpa	Mean value to EN 12372 : 2006 (Lev=15.3MPa)
Compressive strength	177	MPa	Mean value to EN 1926 : 2006 (Lev=117MPa)
Freeze thaw resistance	17.4/16.3	Mpa	Mean values to EN 12371 : 2006
Abrasion resistance	17.2	mm	Mean value to EN 14157 : 2004 (Hev=17.6mm)

Texture Specific Properties

	Honed	Flame Textured	Blasted
Light Reflectance Value (LRV)	27.76	36.71	36.99
Surface Roughness (Rz - µm)	19	40	>75
Slip Resistance (BS 14231) (Wet)	43.8	69	70
Slip Resistance (BS 14231) (Dry)	66.5	95	95



Manufacturing

Tolerances	Paving Class 1, Setts Class 2, Kerbs Class 2 tolerances to all dimensions as standard. Others by agreement
Production Control	Manufactured to ISO 9001 Quality assurance standard
Materials Control	CE Marked to BS EN 1341 Paving, 1342 Setts, 1343 Kerbs



Sustainability

ERI score	Available on request
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Umbriel Granite Carbon Footprint				
Paving	600mm wide x 50mm thick x 900mm long	23.52	kgCO ₂	each
Setts	100mm wide x 100mm thick x 200mm long	1.50	kgCO ₂	each
Kerbs	150mm wide x 300mm deep x 1m long	32.30	kgCO ₂	each

