

Boughton Biodiverse Substrate



Product information

The greater amount of sand particles in this substrate allows it to hold onto a greater volume of water compared to EX1, but still allows rapid drainage when required. Due to the greater sand content, this substrate is not suitable for very lightweight applications. As a result of its relatively free draining nature, temporary irrigation may be required to assist plant establishment.

Application

Designed specifically for semi-intensive green roofs, this substrate should be installed at a depth of 120-180mm. It is perfectly suited for biodiverse roofs, which require substrate to be installed at varied depths across the structure in order to increase variability.

Standard

Boughton Biodiverse Substrate meets and exceeds all present G.R.O guidelines.



Boughton Loam Ltd

Properties

Bulk density oven dried (g cm-3)	0.99
Bulk density at 10% VMC (g cm-3)	1.08
Bulk density at field capacity (g cm-3)	1.40
Field Capacity (% v/v)	40.0
Particle Density (g cm-3)	1.38
Total Porosity (%)	71.9
Porosity at Field Capacity (%)	39.5
Effective Porosity (%)	32.3
Saturated Hydraulic Conductivity	151
(mm min-1)	

Delivery info

Boughton Biodiverse Substrate can be delivered in any required format. This includes 25ltr and IBC Bulk bags. Or loose tipped as required.

















Boughton Biodiverse Mix engineering characteristics compared to FLL standards for Extensive greening

Substrate Density

Bulk Density when oven dried (g cm ⁻³)	0.99
20	
Bulk Density at 10% VMC (g cm ⁻³)	1.08
Bulk Density at field capacity (g cm ⁻³)	1.40
Particle Density (g cm ⁻³)	1.38

Water & Air

Field Capacity (% v/v)	40.0
Total Porosity (%)	71.9
Porosity at Field Capacity (%)	39.5
Effective Porosity (%)	32.3
Saturated Hydraulic Conductivity (mm min-1)	151

Chemical

Organic Matter (%)	3.7	
pH	8.2	
EC (mS cm ⁻¹)	2.8	

Plant Available Nutrients

Nitrogen (mg l ⁻¹)	12.3
Phosphate (mg l ⁻¹)	>165
Potassium (mg I ⁻¹)	>241

Particle Size Distribution

Stones (>8 mm)	1.7
Coarse gravel (8-4 mm)	16
Fine gravel (4-2 mm)	2.6
Very coarse sand (2-1 mm)	7.4
Coarse sand (1.0-0.5 mm)	21.0
Medium sand (0.5-0.25 mm)	33.9
Fine sand (0.250-0.125 mm)	13.2
Very fine sand (0.125-0.050 mm)	0.6
Silt (0.050-0.002 mm)	2.3
Clay (<0.002 mm)	1.4

Boughton Loam Ltd