

# Boughton Extensive Green Roof Substrate 2



## Product information

Boughton Extensive Green Roof Substrate 2 has a higher amount of organic matter compared to conventional extensive green roof substrates. The mixture is very effective at retaining moisture and releasing it slowly. This means that the mixture is suited to projects where more intensive planting is required and weight loading is less of an issue.

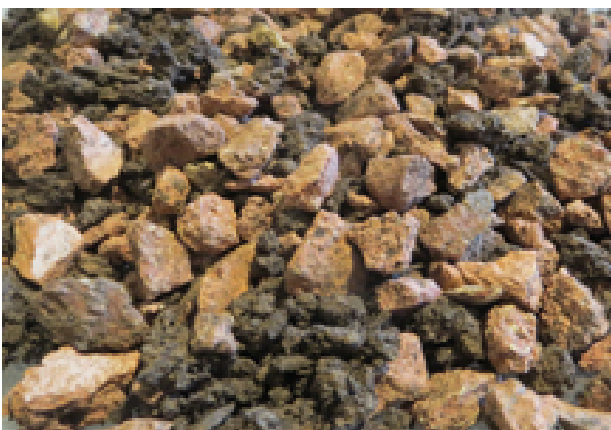
The substrate is also suitable as a Semi Intensive substrate due to its relatively low hydraulic conductivity, making it perfect for areas prone to high levels of rainfall.

## Application

Boughton Extensive 2 mix with its higher organic matter content can be used where there is no ongoing irrigation available. Ideally it should be laid at a minimum of 80mm and is designed for sedum dominated schemes.

## Standard

Boughton Extensive Green Roof Substrate 2 meets and exceeds all present G.R.O guidelines.



**Boughton Loam Ltd**

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## Properties

Bulk density oven dried (g cm-3)	0.9
Bulk density at 10% VMC (g cm-3)	1.14
Bulk density at field capacity (g cm-3)	1.48
Field Capacity (% v/v)	56.6
Particle Density (g cm-3)	1.70
Total Porosity (%)	52.7
Porosity at Field Capacity (%)	50.9
Effective Porosity (%)	1.8
Saturated Hydraulic Conductivity (mm min-1)	7

## Delivery info

Boughton EX2 Green Roof Substrate can be delivered in any required format. This includes 25ltr and IBC Bulk bags. Or loose tipped as required.



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

**Substrate Density**

Bulk Density when oven dried (g cm <sup>-3</sup> )	0.90
Bulk Density at 10% VMC (g cm <sup>-3</sup> )	1.14
Bulk Density at field capacity (g cm <sup>-3</sup> )	1.48
Particle Density (g cm <sup>-3</sup> )	1.790

**Water & Air**

Field Capacity (% v/v)	56.6
Total Porosity (%)	52.7
Porosity at Field Capacity (%)	50.9
Effective Porosity (%)	1.8
Saturated Hydraulic Conductivity (mm min <sup>-1</sup> )	7

**Chemical**

Organic Matter (%)	8.8
pH	7.5
EC (mS cm <sup>-1</sup> )	3.4

**Plant Available Nutrients**

Nitrogen (mg l <sup>-1</sup> )	12.9
Phosphate (mg l <sup>-1</sup> )	>165
Potassium (mg l <sup>-1</sup> )	>241

**Particle Size Distribution**

Stones (>8 mm)	31
Coarse gravel (8-4 mm)	19.8
Fine gravel (4-2 mm)	0.6
Very coarse sand (2-1 mm)	1.8
Coarse sand (1.0-0.5 mm)	2.7
Medium sand (0.5-0.25 mm)	5.9
Fine sand (0.250-0.125 mm)	6.9
Very fine sand (0.125-0.050 mm)	4.6
Silt (0.050-0.002 mm)	13.2
Clay (<0.002 mm)	13.5

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