

# Boughton Semi Intensive 2 Green Roof Substrate



## Product information

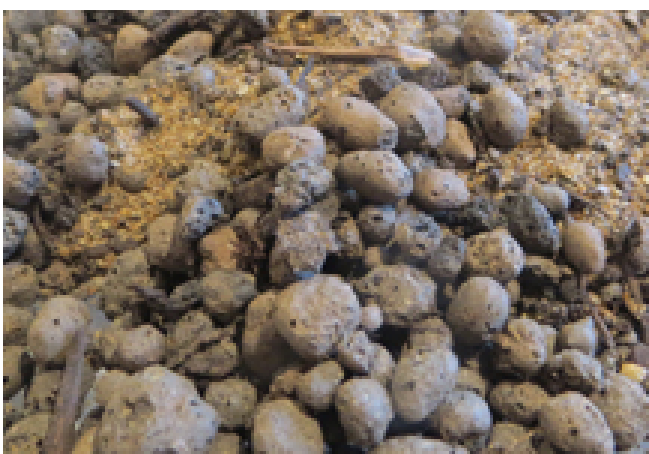
Boughton Semi Intensive green roof substrate 2 is suitable for projects which require a substrate that can support a wide range of plants at a relatively shallow depth. It's free draining nature prevents saturation and excessive weight build-up of the substrate.

## Application

Boughton Semi Intensive 2 can be laid at depths down to 100mm. The substrate will support varied planting. Boughton Semi Intensive 2 is often used where increased levels of biodiversity are desired. Biodiversity is achieved by laying the substrate at varying depths across the roof, this in turn allows for different planting schemes across a single roof.

## Standard

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



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## 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 (mm min-1)	151

## Delivery info

Boughton Semi Intensive Green Roof Substrate 2 can be delivered in any required format. This includes 25ltr and IBC Bulk bags. Or loose tipped as required.



**Boughton Semi Intensive 2 Mix engineering characteristics compared to FLL standards for Extensive greening**

**Substrate Density**

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Bulk Density at field capacity (g cm <sup>-3</sup> )	1.40
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**Water & Air**

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

**Chemical**

Organic Matter (%)	3.7
pH	8.2
EC (mS cm <sup>-1</sup> )	2.8

**Plant Available Nutrients**

Nitrogen (mg l <sup>-1</sup> )	12.3
Phosphate (mg l <sup>-1</sup> )	>165
Potassium (mg l <sup>-1</sup> )	>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

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