

# Boughton Semi Intensive Green Roof Substrate 1



## Product information

Boughton Semi intensive substrate 1 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.

## Application

Boughton Semi Intensive 1 can be laid at depths down to 80mm and still support varied planting including wild flowers and sedum.

## Standard

Boughton Semi Intensive 1 Green Roof Substrate meets and exceeds all present G.R.O guidelines.



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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 Semi Intensive Green Roof Substrate 1 can be delivered in any required format. This includes 25ltr and IBC Bulk bags. Or loose tipped as required.



British Association of Landscape Industries



**Boughton Semi Intensive 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> )	1.48
Particle Density (g cm <sup>-3</sup> )	1.70

**Water & Air**

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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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