

## SKY GARDEN EXTENSIVE SUBSTRATE – SBS01



### SPECIFICATION DESCRIPTION

A free draining, low nutrient and moisture retentive growing medium made from 100% recycled material in line with the UK Green Roof Code of best practice. Testing conforms within the BS8616:2019 green roof substrate testing methods and was completed by STRI.

All testing of Sky Garden Ltd Substrate was completed by Sports Turf Research Institute under the BS8616:2019 Specification for Performance Parameters and Test Methods for Green Roof Substrates. A specially blended mix of free draining organic material with clean and screened aggregates, recycled from certifiable waste products from the building industry to provide a low nutrient water retentive growing medium.

### SYSTEM CONSIDERATIONS

- A free draining substrate suitable for use on extensive roof systems and all plant finishes.
- Free draining when saturated.
- Minimum recommended depth of 60mm.
- Less than 20% organic matter content as per GRO guidelines.

### PHYSICAL PROPERTIES

Bulk Density when oven dried	0.80 g cm <sup>-3</sup> (800 kg/m <sup>3</sup> )
Bulk Density at field capacity	1.10 g cm <sup>-3</sup> (1100 kg/m <sup>3</sup> )
Calculated Bulk Density at Saturation	1.36 g cm <sup>-3</sup> (1360 kg/m <sup>3</sup> )
Field capacity (% v/v)	29.2 % v/v
Total porosity (%)	55.80%
Porosity at field capacity (%)	26.60%

### TECHNICAL PROPERTIES

Organic matter (% weight)	2.60%
pH	7.8
Electrical Conductivity (mS cm <sup>-1</sup> )	2.22 mS cm <sup>-1</sup>
phosphate (mg l <sup>-1</sup> )	127 mg l <sup>-1</sup>
Potassium (mg l <sup>-1</sup> )	435 mg l <sup>-1</sup>
Total nitrogen (%)	0.04%