

DATA SHEET

SKY GARDEN BIO-SOLAR SUBSTRATE BS01

Version 1.0

BIO-SOLAR SUBSTRATE

A nutrient-balanced and moisture retentive growing medium made from a blend of soil, compost, lightweight aggregate and aggregate, suitable for use on Extensive Roof Systems. Testing conforms within the BS8616:2019 green roof substrate testing methods and was completed by STRI.

KEY BENEFITS

- A free drainage substrate suitable for use on Bio-Solar roof Systems
- Suggested Depth: 60 mm+ to suit plant depth.
- Free drainage when saturated.
- Allows for root penetration.
- Recycled content.
- Organic material PAS100 certified



PHYSICAL PROPERTIES

Bulk Density when oven dried	1.01 g cm ⁻³ 1.02(1005 kg/m ³)
Bulk Density at field capacity	1.10 g cm ⁻³ (1104 kg/m ³)
Field capacity (% v/v)	31.6 % v/v
Total porosity (%)	34.01%
Porosity at field capacity (%)	2.50%

TECHNICAL PROPERTIES

Organic matter (% weight)	3.60%
pH	7.7
Electrical Conductivity (mS cm ⁻¹)	-
Phosphate (mg l ⁻¹)	38 mg l ⁻¹
Potassium (mg l ⁻¹)	157 mg l ⁻¹
Total nitrogen (%)	0.03%

SPECIFICATION DESCRIPTION

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. Specially blended mix of free draining organic material with clean, lightweight and screened aggregates, to provide a nutrient-balanced water retentive growing medium. Complies with Soil Association standards and certifications.



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