

## 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><br>(800 kg/m <sup>3</sup> )  |
| Bulk Density at field capacity        | 1.10 g cm <sup>-3</sup><br>(1100 kg/m <sup>3</sup> ) |
| Calculated Bulk Density at Saturation | 1.36 g cm <sup>-3</sup><br>(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%                    |