

# **Greenrooftops** The modular ready-made green roof system.

## Technical data sheet

The Greenrooftops ready-made green roof system is an all in one module, which contains the complete package of substrate and established Sedum together with a drainage layer and water reservoir for flat and slightly pitched roofs. This means separate supply of all the different materials needed to build up a green roof is unnecessary and the installation can be made without any specialist knowledge. The shape of the module facilitates easy, fast and clean installation.

### **General Characteristics:**

- Manufactured from durable, sustainable and recyclable Polypropylene (PP).
- Resistant to UV Light, supplied with an UV stabiliser
- Resistant to chemical substances
- Resistant to temperature fluctuations and frost
- Flexible without loss of strength

### **Specification:**

- Dimension: 46 cm x 49.5 cm with an edge height of 8 cm
- Area: 4.5 modules per 1 m<sup>2</sup>
- Weight: Empty module = approx. 0.7 kg

Module filled with 2 layers as described and saturated with water = approx. 12 kg or 55 kg/m<sup>2</sup>

### **Composition of the module:**

#### **Drainage layer:**

Rainwater which is not absorbed can be drained from the module and will flow underneath the module. Four drainage holes at the top and bottom of the water buffering zone have been drilled for this purpose and let the excess water slowly drain further buffering the effect of sudden storm situations

#### **Water buffering zone:**

Rain water will be buffered by capillary action through the substrate and drainage layer of expanded clay granules. This will be stored in the module to create an extra buffer for the dry periods up to the level of the drainage holes at 1 cm from the base. The volume of expanded clay granule is 6 litres per module

#### **Filtration,**

Small slits in the side of each water reservoir at a set height ensure that a reservoir is retained in the bottom of the module whilst filtering excess water to run off beneath without loss of substrate.

#### **Substrate layer:**

The thickness of the substrate layer is related to characteristics of rooting zone of the sedum species and the climate. This zone ensures that there are plenty of nutrients and water available to the vegetation whilst at the same time providing sufficient oxygen to the roots and opportunity for the roots to anchor to the substrate.

- Characteristics: Light weight, huge buffering capacity, nutritious but not too rich
- Volume substrate: 5.5 l per module

#### **Vegetation layer:**

The modules are supplied with excellent coverage as close to 100% as we can achieve. Our modules are graded in the field to ensure that only the best are dispatched. The sedum vegetation is grown from seed consists of 16 species of sedum. We use seed rather than cheaper cuttings as this results in a greater number of species becoming established. During the establishment period the modules are supplied with extra nutrients and regular maintenance to facilitate good coverage and the perfect instant roof.



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