

## **Planning Application**

2015/5894/P

Address: 23A Hampstead Hill Gardens, NW3 2PJ

Status: Planning Condition Discharge Condition 15

### **1.0\_Planning Condition 15**

Prior to the first occupation of the building, a plan showing details of the green roof (including species, planting density, substrate and a section at scale 1:20 showing that adequate depth is available in terms of the construction and long term viability of the green roof) and a programme for a scheme of maintenance, shall be submitted to and approved in writing by the local planning authority. The green roof shall be fully provided in accordance with the approved details prior to first occupation and thereafter retained and maintained in accordance with the approved scheme of maintenance.

### **2.0\_Green Roof System**

System: Modular Green Roof System

### **3.0\_Supporting Documents**

> 596/GR \_Green Roof Details

> Modular Green Roof System specification sheet

> Standard Sedum Species

### **4.0\_Maintenance Scheme**

#### **4.1\_Maintenance**

Ongoing maintenance is recommended in accordance with the supplier's guidance, stated below.

A 2-year period of ongoing maintenance is recommended to allow the roof to fully establish itself. Two visits per year are recommended to remove unwanted material and to inspect the performance and growth of the roof. An ongoing minimum annual inspection after this 2-year period is recommended to ensure the continued performance and any changes to the maintenance regime.

4.2\_ Maintenance Programme

	YEAR 1				YEAR 2				YEAR 3				YEAR 4			
Task	Sp	Su	Au	Wi	Sp	Su	Au	Wi	Sp	Su	Au	Wi	Sp	Su	Au	Wi
Trim the roof surface to remove all dead vegetation, rake off debris and cart away			/				/				/				/	
Inspect substrate surface and vegetation barriers; remove all unwanted grasses, weeds, saplings etc.	/				/				/				/			
Any bare areas of substrate must be re-seeded and lightly raked over, or re-planted	/				/				/				/			
Ensure that perimeters and roof outlets are free from weeds and other blockages	/				/				/				/			
Fertilise with slow release nutrient fertilizer at a rate of 25 grams per square metre.	/				/				/				/			
Key : <b>Sp</b> =Spring <b>Su</b> =Summer <b>Au</b> =Autumn <b>Wi</b> =Winter																

# Verdico Modular Green Roof System

www.verdico.co



## Verdico Modular Green Roof System

A pre-grown interlocking plant module that offers ease of installation with exceptional sedum growth coverage.

Delivered in palletised form with a maximum number of 66 modules per pallet. (15 m<sup>2</sup>)

Lightweight with a high water storage capacity.

8-10 different sedum species are well rooted and grown to maturity.

Module Dimensions 450mm (L) x 495 (W) x 80mm (H)

Coverage : 4.4 modules = 1 m<sup>2</sup>

Dry weight of module: ± 8.00 kg or 35.22 kgs per m<sup>2</sup>

Saturated weight of module ± 12.00 kg or 52.80 kgs per m<sup>2</sup>

The module comprises four layers – **Drainage, Filter, Substrate & Sedum**

### Drainage Layer:

The excess water that cannot be absorbed by the cassette can be easily discharged through the drainage system. The water storage layer contains four drainage holes on the top and bottom of each cavity. Rainwater is buffered through a capillary layer of crushed clay grain. Excess water that can not be buffered will drain slowly. To create an additional buffer for droughts, the cassette is equipped to store about 1 cm of non-capillary water at the very bottom.

### Filter layer:

A nonwoven polyester filter membrane of 150 g / m<sup>2</sup> ensures that the fine particles of the substrate can not be washed away and can not block the drainage holes.

### Substrate layer:

The thickness of the substrate layer has been adapted to the needs of the sedum species and to the climate. This layer, on one hand, provides nutrients and water supply for the vegetation, and on the other hand it provides oxygen and anchorage for the roots. The substrate is light weight, providing nutrition, aeration and a high capacity to store water.

### Sedum Layer

8 to 10 species of sedum are employed, grown for nodules to become well root. The trays are supplied with 80% minimum coverage.

Verdico Ltd c/o Wraxalls, Dengemarsh Road, Lydd, Kent TN29 9JH  
Verdico is a UK based Company registration number 09253496

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## Standard sedum species -2017



Standard sedum species used for M-Tray® modular green roof units planted Spring 2017

Flowering period: June to September across the different mixture of species.



**Sedum Acre**

**Flower Colour:** Yellow  
**Flowering Period:** June-July  
**Growth Habit:**Ground Cover/  
Mat-Forming

**Characteristics:** Medicinal Plant



**Sedum Kamchaticum 'Stone  
Crop'**

**Flower Colour:** Brilliant Pink  
**Flowering Period:**May-July  
**Growth Habit:**Ground  
Cover/Low Growing

**Characteristics:** Shade Tolerant



**Sedum Acre Oktoberfest**

**Flower Colour:** Bright Cream-  
White

**Flowering Period:**June-August  
**Growth Habit:**Ground Cover/  
Cushion/Mat-Forming

**Characteristics:** Dainty,  
Drought Resistant



**Sedum Montanum Orientale**

**Flower Colour:** Yellow  
**Flowering Period:**June-August  
**Growth Habit:**Ground Cover/  
Low Growing

**Characteristics:** Ornamental  
Foliage.



**Sedum Album**

**Flower Colour:**White  
**Flowering Period:**June-August  
**Growth Habit:**Evergreen/Mat-  
Forming

**Characteristics:**Honey-Bee food  
Plant.



**Sedum Oreganum**

**Flower Colour:** Yellow  
**Flowering Period:**June-August  
**Growth Habit:**Dense  
Characteristics: Attracts

Butterflies



**Sedum Ellacombianum**

**Flower Colour:** Yellow  
**Flowering Period:**June-August  
**Growth Habit:**Dense/Mat-  
Forming

**Characteristics:** Honey-Bee  
Food Plant



**Sedum Reflexum**

**Flower Colour:** Yellow  
**Flowering Period:** June-August  
**Growth Habit:**Ground Cover  
**Characteristics:** Culinary  
Herb/Honey-Bee Food Plant.



**Sedum Floriferum**

**Flower Colour:** Golden  
**Flowering Period:**July-August  
**Growth Habit:**Evergreen/Dense  
**Characteristics:**Honey-Bee  
Food Plant



**Sedum Selskianum**

**Flower Colour:**Golden

**Flowering Period:**August-September

**Growth Habit:**Cushion/Dense

**Characteristics:**Honey-Bee Food Plant



**Sedum Forestianum**

**Flower Colour:** Bright Yellow

**Flowering Period:**June-August

**Growth**

**Habit:**Rosettes/Evergreen

**Characteristics:**Strong Growing Sedum



**Sedum Sexangulare**

**Flower Colour:** Lemon Yellow

**Flowering Period:** July-August

**Growth Habit:**Dense

**Characteristics:** May turn Red in the Autumn in full Sun.



**Sedum Hybridum 'Czars Gold'**

**Flower Colour:** Golden

**Flowering Period:**May-August

**Growth Habit:**Evergreen/Mat-Forming

**Characteristics:**Heavy Blooming of Yellow Stars.



**Sedum Spurium**

**Flower Colour:** Dark Pink

**Flowering Period:**July-September

**Growth Habit:**Dense

**Characteristics:**May turn red in Autumn.

