

**Product Data Sheet      Vegetation Product**  
**Sky Garden Sedum Blanket**  
**VGSB30**



**Technical Data:**

**Sky Garden Sedum Blanket**

*Precultivated UK grown vegetation blanket, containing between 8-12 species specifically chosen for extensive green roof applications. Grown on 20mm substrate base on a carrier membrane.*

**Physical Properties:**

Composition:	Base - Geo-composite polypropylene mesh / coir blanket.
	Growing Medium - 20mm Sedum Mix.
	Vegetation - Mature Sedum plants grown from rhizome and seed.
Plant Height:	20-50mm, depending on growing stage of sedum.
Weight (dry)	15kg/m2
Weight (saturated):	20kg/m2
Consignment Size:	35m2 per Pallet
Colour:	Seasonal variation
Sizes:	1.1 x 2m



**Species Sown:**

12 Sedum Species Sown (\*subject to seasonal variations)  
*Sedum acre, Sedum album, Sedum ellacombianum, Sedum floriferum, Sedum forsterianum, Sedum hybridum, Sedum kamtschaticum, Sedum montanum, Sedum reflexum, Sedum selskianum, Sedum sexangulare, Sedum spurium.*

**System Considerations:**

Instant vegetative cover for Extensive Sedum Blanket Systems.

Recommended minimum substrate depth 50mm

Low maintenance, shallow rooted and non-invasive vegetative cover.

Sky Garden recommends annual maintenance of sedum green roofs to remove invasive/unwanted species to ensure system functionality and sustainability.

**Full Specification Description:**

*High quality Sedum Blanket, grown in the UK, to provide the perfect low maintenance solution for extensive green roof systems, using a carefully selected mix of sedum species*

Product: **VGSB30**

Supplier: Sky Garden Ltd



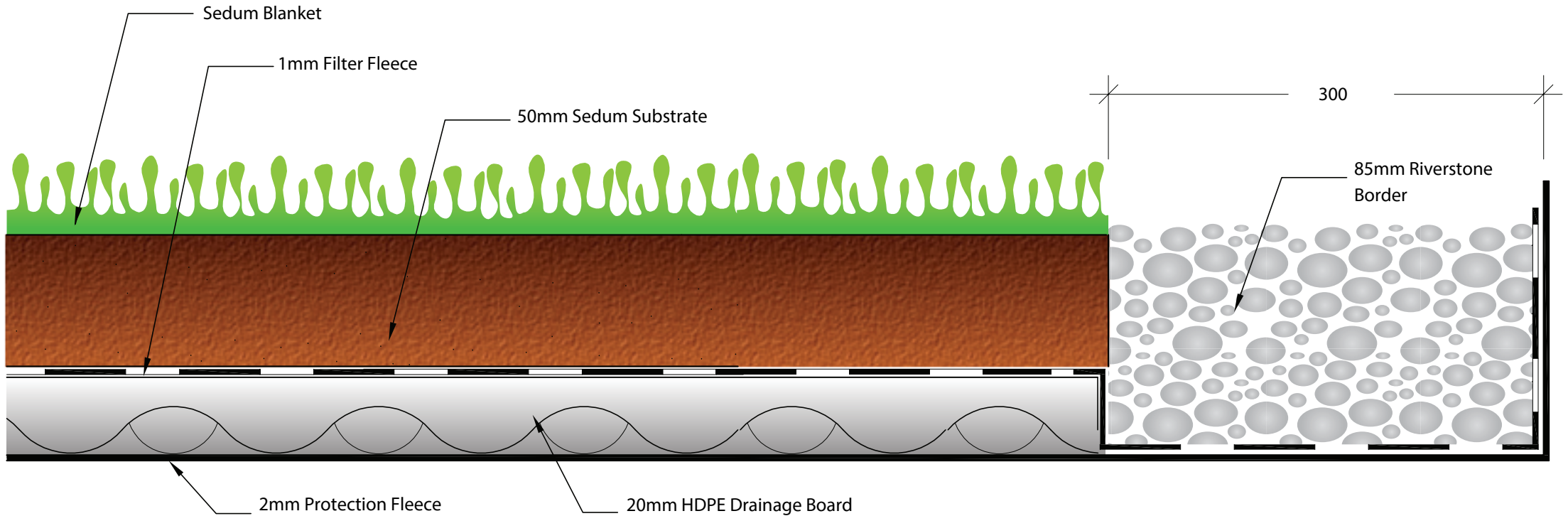
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Unit 4  
 Beta Orchard Industrial Estate  
 Toddington  
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### Q37 Details

#### - Protection Fleece

- Material: Tensile geo-synthetic protection layer
- Thickness: 2mm

#### - Drainage Layer

- Material: Rigid HDPE drainage board
- Depth: 20mm

#### - Filter Fleece

- Material: 1mm non woven geotextile

#### - Sedum Substrate

- Material: low nutrient, free draining root zone
- Depth: 50mm

#### - Sedum Blanket

- Planting Mix: 8-12 sedum species specifically chosen for green roof applications
- Vegetation coverage at installation: Min. 90%

**System Name & No.**  
 Sedum Blanket System (SGS02)

**Drawn by:**  
 CST

**Scale:**  
 Do Not Scale

**Contact:**  
 mge.gamble@sky-garden.co.uk  
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**Q37 Specification for**  
**Project/Reference:**  
**(Brandes)**  
**Sedum Blanket System**  
**Date:15-7-15**

This specification is based on current information available at the time of writing, if any aspects are revised prior to construction, or you require any additional details. Please contact our Technical Services Dept who would be pleased to amend or update the information provided.

## Q37 GREEN ROOFS

To be read with Preliminaries / General Conditions

### GENERAL

130

#### **EXTENSIVE GREEN ROOF**

*Roof type:* As J31 (liquid), H31 (Standing Seam), J41 (Bitumen), J42 (Single Ply), J21 Mastic)

*Substrate:* As J31

*Slope:* As J31

*Waterproofing:* As J31

*Thermal Insulation:* As J31

*Protection:* Protection fleece clause 330

*Moisture Control:* Drainage layer as clause 350

*Depth:* Soil less substrate as clause 390

*Vegetation:* As clause 400

*Accessories:* Filter fleece as clause 360

*Edge retaining profile* as clause 420

*Intermediate restraints* as clause 820A

*Border* as clause 460

*Roof finish contour* as clause 391

*Surface habitat creation* as clause 392

*Wall mounted habitats* as clause 393

*Aftercare* as clause 402

*Irrigation* as clause 401

#### **PERFORMANCE**

210

#### **GENERAL DESIGN**

*Green roof and associated features:* Complete the detailed design.

*Proposals:* Submit drawings, technical information, calculations and manufacturers literature.

*Performance criteria:* As per design requirements.

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#### **CHARACTERISTIC ROOF LOADS**

*Roof structure:* The structural engineers are satisfied themselves that the roof structure and deck are suitable to receive the dead load of the proposed green roof system and landscape both during construction and on completion of the works.

*Living Roof: 110.00kgs/m<sup>2</sup> max*

*Allowance for additional loads during construction:* To be advised

*Requirement:* Restrict site activities to ensure that design loads are not exceeded, or submit proposals for temporary supports.

#### **PRODUCTS**

320

#### **ROOT BARRIER SG ROOT BARRIER**

*Supplier:* Sky-Garden Ltd, Unit 4 Beta, Orchard Industrial Estate, Toddington Glou, GL545EB  
P:01242 620905 F: 01242620739

*Product reference:* NA

*Material:* NA

*Thickness:* NA



- 401 *Planting mix:* Sedum lydium, Sedum lydium glaucum, Sedum acre, Sedum album minor, Sedum album corel carpet, Sedum hybriden immergrunchen, Sedum floriferum, Sedum spurium Fuldaglut, Sedum spurium Rosea, Sedum sexangulare.  
*Density:* pre grown blanket (12 month minimum established) at point of installation.  
*Vegetation coverage at installation:* minimum (90% coverage) installed.
- Additional* – a greater range of species and additions of wildflower, cornflower, herb and alpine mixes can be added either as a regional pre grown blanket or as a post installation over seed and should be discussed at a planning stage.
- 402 **IRRIGATION**  
The green roof will need thorough saturation following installation, immature systems will require a supplementary irrigation system to be available for the first 12 months of the establishment period. Blanket systems may need supplementary watering during periods of extended drought, especially for the first 2 years post installation.  
It is strongly recommended that a connection at roof height is left for systems to plumb too providing a roof pressure of 2.5-3bar and a flow rate of 60L/min.
- AFTERCARE**  
A two visit inspection and remedial package for year 1 maintenance (unless longer agreed) will manage the roof establishment period. Aftercare programs do not cover watering but can cater for commissioning and de commissioning of the irrigation system.  
Remedial aftercare covers failure of the green roof to establish under certain criteria but does not cover damage caused by other services, birds, theft, vandalism or extreme weather damage.
- 420 **EDGE RETAINING PROFILE**  
*Manufacturer:* Sky-Garden Ltd, Unit 4 Beta, Orchard Industrial Estate, Toddington Glou, GL545EB  
P:01242 620905 F: 01242620739
- 420/b *Product Reference:* SGME0102  
*Material:* 2mm tensile Aluminium up stand with corner fixings and perforations  
*Height:*80mm  
*Foot:* 75mm
- SEPERATION PROFILE**  
*Manufacturer:* Sky-Garden Ltd, Unit 4 Beta, Orchard Industrial Estate, Toddington Glou, GL545EB  
P:01242 620905 F: 01242620739
- Product Reference:* SGME01009  
*Material:* 0.9mm tensile Aluminium up stand with corner fixings and perforations  
*Height:*80mm  
*Foot:* 75mm
- 460 **BORDERS**  
*Type:* Riverstone Pebbles  
*Supplier:* Sky-Garden Ltd, Unit 4 Beta, Orchard Industrial Estate, Toddington Glou, GL545EB  
P:01242 620905 F: 01242620739  
*Size:* 20-40mm round washed  
*Colour:* Multi-colour mixed grade (minimal sharp edges but not guaranteed as stone damage during bagging and transport can occur)



*Laying:* 300mm borders around perimeters, penetrations and outlets (25kg units)

## EXECUTION

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### INSTALLATION GENERALLY

*Preparation:* Clear all surfaces of debris.

*Timing:* After certification of waterproof membrane integrity.

*Surface condition:* Visually inspect waterproof membrane, report any damage.

*Faults in waterproof membrane:* Report.

*Contamination:* Do not use materials detrimental to healthy plant growth.

*Storage:* Do not overload.

*Point loads:* Avoid.

*Outlets:* Do not block.

*Outlet grilles:* Installed.

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### ADVERSE WEATHER

*Unfinished work:* Secure from damage and wind uplift.

*Conditions:* Do not install or work with frozen materials.

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### 740 ROOT BARRIER INSTALLATION

*Joints:* Minimize.

*Overlaps (minimum):* 100mm

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### PROTECTION LAYER INSTALLATION

*Joints:* Minimize.

*Overlaps (minimum):* 100mm

*Up stands:* Extend to top of growing medium.

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### DRAINAGE LAYER INSTALLATION

*Extent:* Continuous over entire roof area.

*Fitting:* Loose laid

*Up stands:* Fit closely around penetrations and outlets.

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### FILTER MEMBRANE INSTALLATION

*Joints:* Minimize.

*Overlaps (minimum):* 100mm

*Fitting:* Loose Laid

*Up stands:* Extend to top of growing medium.

790

### GROWING MEDIUM INSTALLATION

*Handling:* Minimize.

*Conditions:* Handle in the driest condition possible. Do not handle or install wet or frozen.

*Layers:*

*Depth (maximum):* as per Q37 clause 390

*Sequence:* Gently firm each layer before spreading the next.

820

### EDGE RETAINING PROFILE INSTALLATION

*Cutting:* Neat, accurate and without spalling.

*Junctions:* vertical, secured using proprietary connectors.

*Position:* True to line and level. Smooth continuous lines.

*Fixing:* spot bonding with manufacturers approval or system ballasted

*Retention detail is used where there are system retention requirements and should be spot bonded in accordance with manufacturers approval or system ballasted.*

*Separation detail if for physical divide between system and slab or stone detailing and is system ballasted.*

840A

#### INTERMEDIATE RESTRAINTS INSTALLATION

Intermediate restraints should be fitted across the roof on pitches exceeding 10° – refer to specification and design detail or waterproof system manufacturer detail for type and fixing method.

As a guide, retention battens on pitches from 10° – 20° should be installed at 2000mm increments up the roof slope with a mechanically fixed one at eaves. From 21° – 45° the spacing should be reduced to 1000mm. The height of the restraints should not exceed the combined height of the drainage and substrate layers.

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#### LAYING BORDER

*Condition of substrate:* Clean.

*Gravel guards:* Fit to outlets.

*Laying:* 300mm borders around perimeters and outlets - spread evenly, do not pile to excessive heights

*Depth (minimum):* 50mm

*Previously laid materials:* Protect during the spreading of Riverstone Pebbles

#### COMPLETION

910

#### INSPECTION

*Timing:* Before handover.

*Give notice (minimum):* 3 days.

920

#### COMPLETION

*General:* Leave the works in a clean, tidy condition.

*Surfaces:* Clean immediately before handover.

*Outlets:* Clean and clear of obstructions.

*Completed green roof:* Protect from adjacent or high level working.

930

#### DOCUMENTATION

*Timing:* Submit at handover.

*Contents:*

Growing medium declaration of analysis.

Manufacturers' guarantees and warranties.

Procedures for maintenance of the green roof.

Record drawings showing the location of planting and associated features.

Aftercare agreement

Aftercare guidelines

O&M manual

Irrigation guidelines

*Number of copies:* As required.

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#### MAINTENANCE

This should consist of a minimum of two visits per year by the appropriate labour force, which will be dictated by the roof area. Irrigation is unlikely to be required once the plant layer is established.

Establishment of immature systems 18-36 months and blanket systems 12-18 months



