

## Green roof specification : Application Number 2024/5683

This assessment accompanies the above application to specify and detail the green roof of 16 Nassington Road.

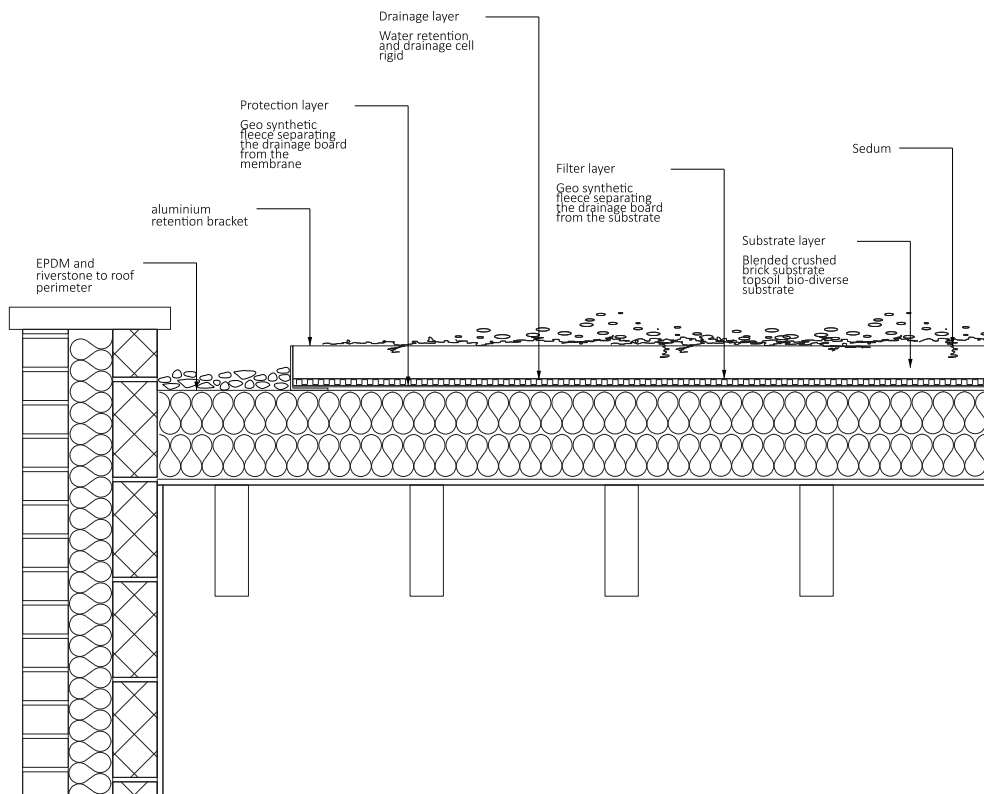
### WORK TO BE UNDERTAKEN

Green roof to be installed on the flat roof of the new extension

### SPECIFICATION

Sedum blanket System for domestic roof from Skygarden

### TYPICAL DETAIL FOR THE SEDUM ROOF INSTALLATION



## Product Specification

### SKY GARDEN SEDUM BLANKET (SGS02)



|   |       |
|---|-------|
| <b>System Compatibility</b>   |       |
| New Build warm and cold   | ●     |
| Refurbishment   | ●     |
| Inverted  | ●     |
| <b>Establishment</b>  |       |
| Established   | ●     |
| % cover installed   | 90    |
| <b>Functions and Drivers</b>  |       |
| Aesthetics  | ●     |
| Sustainability  | ●     |
| Habitat provision   | ●     |
| BAP compliance  | ●     |
| BREEAM calculation  | ●     |
| Attenuation aid   | ●     |
| Carbon absorption   | ●     |
| Thermal improvement   | ●     |
| Acoustic improvement  | ●     |
| <b>Use</b>  |       |
| Sedum   | ●     |
| Wildflower  | ●     |
| Plug or seed/shoot  | ●     |
| Shrubs and trees  | ●     |
| Turf systems  | ●     |
| <b>Roof Slopes</b>  |       |
| Flat  | ●     |
| 0-5°  | ●     |
| Up to 12°   | ●     |
| Up to 20°   | ●     |
| Up to 45°   | ●     |
| <b>Weight</b>   |       |
| Weight, wet (kg/m <sup>2</sup> )                                    | 90    |
| Weight, dry (kg/m <sup>2</sup> )                                    | 80    |
| <b>Typical Maintenance</b>  |       |
| Visits per year   | 2     |
| <b>System Performance</b>   |       |
| Substrate Depth (mm)  | 50+10 |
| Drainage board depth (mm)   | 20    |
| Drainage water storage (l/m <sup>2</sup> )                          | 8-10  |
| Substrate run off reduction %                                       | 60    |
| Water use potential %   | 60    |
| Harvesting compatibility  | Yes   |
| Storage compatibility   | Yes   |
| Habitat provision   | ●     |
| Nectar foraging provision   | ●     |
| Pollen foraging provision   | ●     |
| Suitable for application ●<br>May be compatible ●<br>Not suitable ● |       |

#### Product

##### SGS02 Pre-Grown Sedum Blanket

Regionally produced 10-12 species blanket.

12-18 month established. UK provenance species pre-established and field hardened.

The product contains a range of sedum and alpine varieties for sun and partial shade and is produced through a biodegradable woven grid to ensure integrity in transport and installation.

#### Applications

Systems are suitable for both new build and refurbishment. Roof pitches up to 45° can be greened but over 12° retention systems are required.

Blankets offer instant greening solutions and the system is suitable for high visibility situations where established finishes are required. The system weight allows for inverted system ballasting as dry weights exceed 80kg/m<sup>2</sup>.

#### Maintenance

Sedum blanket systems are designed to be low maintenance. Species selection ensures that the roof will evolve successfully but intervention is sometimes required to minimise invasive urban species.

#### Irrigation

Sedum blanket systems with a minimum of 50mm substrate may require irrigation for the first six months post installation. Once established consideration is required only during elongated periods of drought (6-8 weeks).

#### Additions

Wildflower, cornflower, herbs or perennials can be added to enhance bio-diversity (growing time 8-12 months, variety dependent).

#### Benefits

- Instant greening
- Better establishment
- Less maintenance than immature systems

#### Component Description

##### (SGPL0102) Protection Layer

2mm geo synthetic filter fleece

##### (SGRDL01020) Drainage Layer

20mm drainage and retention cell

##### (SGFL0101) Filtration Layer

1.1mm geo synthetic filtration fleece

##### (SGSS01050) Substrate Layer

50mm blended 90:10 crushed brick

##### (SGSB01030) Vegetation Layer

30mm sedum blanket

#### Species Number

10-12

#### Contour

System laid flat

#### Habitats

Not as standard

#### Additional Items to standard system offer

##### River Stone detail (edge)

300mm (20:40) stone detail

##### River Stone detail (penetrations)

150-300mm (20:40) stone detail

##### Metal Retention Detail

2mm bonded or ballasted system

##### Metal Separation Detail

1.2mm bonded or ballasted system

#### Irrigation

Recommended for establishment and periods of drought

#### Additional Species

Regional wildflower and cornflower over seed 1-2gms/m<sup>2</sup>

#### Habitat Creation and Contour

##### Habitat Creation

Rock and log piles within sedum blanket system

##### System Contour

Light 20mm contour can be specified at design