



Greenfix Sky-Garden Ltd, Unit 4 Beta, Orchard Industrial Estate, Toddington Glos, GL54 5EB
P: 01242 620905 F:01242 620739
www.sky-garden.co.uk

Sky-garden provide a range of green roof systems to fit the requirements of this developing industry sector. The sedum blanket system is sustainable, offers an instant green effect with minimal maintenance requirements and provides a green finish that meets the criteria of the green roof industry.

| SKY-GARDEN GREEN ROOF SYSTEMS | | | | | |
|---|-------------------------|--|--|-----------------|----------------------------|
| SEDUM BLANKET | | STANDARD SPECIFICATION | | | |
| | | | | | |
| System Depth | System saturated weight | System dry weight | Water attenuation capacity | BREEAM capacity | System components (number) |
| 110mm | 90kg/m ₂ | 80kg/m ₂ | 60% | very good | 7 |
| Component | | Depth | Description / Function | | |
| Drainage layer | | 30mm | Geo-composite cusped foam drainage and retention layer | | |
| Filter layer | | 2mm | Fine grade geo-synthetic filter layer | | |
| Substrate layer | | 40mm | Virgin crushed brick and 10-15% organic compost layer | | |
| Water management layer | | within substrate | Water management granules within substrate | | |
| Root activator | | within substrate | Root activation granules within substrate | | |
| Macro/micro nutrient package | | within substrate | Slow release nutrient package within substrate | | |
| Sedum blanket | | 35mm | Pre established 6-8 species UK indigenous sedum blanket. | | |
| Roof Inspection | | A 3 month roof inspection to monitor performance and establishment and to outline ongoing maintenance contract requirements is provided on all roofs that are installed by Sky-garden. | | | |
| Plant Range | | Sedum album coral carpet, Sedum album minor, Sedum hispanicum, Sedum reflexum, Sedum hybriden, Sedum lydium glaucum, Sedum lydium, Sedum sexangulare. | | | |
| Edging Detail (not included as standard, see estimate) | | Aluminium edging will be required on all exposed edges where retention is needed. This is generally fixed using compatible adhesives or mechanically fixing by roofing contractor prior to installation. | | | |
| River-Stone (not included as standard, see estimate) | | All roof penetrations and system edges are finished with 300mm borders of washed river stones, these offer additional ballasted weight and drainage for the system plus prevention of sedum invasion to drainage outlets or roof edges. | | | |
| Roof slopes from 8-12 degrees (not included as standard, see estimate) | | A flat roof system can be used on a slope up to 8 degrees unless heavily exposed to prevailing winds. Between 8 and 12 degrees a baton system is used which is fixed to the drainage layer of the system offering suitable retention for these sloped conditions. | | | |
| Roof slopes in 12-15 degrees + (not included as standard, see estimate) | | Between 12 and 15 degrees a non sheering recycled plastic baton is used. This is attached at 2m centres up the roof slope to a mechanically fixed geo-synthetic fleece on a rigid drainage board. | | | |
| Roof slopes 15 degrees + (not included as standard, see estimate) | | Above 15 degrees the roof will require mechanically fixed thrust batons at a density of between 0.75 and 2metres up the roof slope. These batons will need to be perforated or staggered to allow water to pass down through the system but without affecting the integrity of the roof. | | | |





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Establishment :

The system will take up to 12 months to establish depending on location and the time of year laid. The green roof will require watering thoroughly post installation and then regularly for 4-6 weeks if there is no rain. Once established the roof may still need supplementary watering during periods of drought exceeding 4 weeks otherwise discolouration will occur.

Discolouration :

Sedum species discolour rapidly under temperature or moisture stress. Initial symptoms will be a yellow of extension growth followed by browning of peripheral roof areas. The brown appearance is caused by the system entering a dormant growth stage and once moisture is applied or the temperature rises, the roof will return to green relatively quickly.

Maintenance :

It is recommended to carry out annual maintenance at least once a year to remove invasive plant and weed specimens, check outlets are working correctly and to apply sedum granular fertiliser.

Irrigation :

Although not recommended as standard, in some areas of the country or in heavily exposed areas where wind drying is an issue we strongly recommend an irrigation system or supplementary watering system is in place.

| Initial coverage | Estimated time to full coverage | Maintenance requirements | Irrigation requirements | Sustainability |
|------------------|---------------------------------|--------------------------|---|----------------|
| 75-90% | 6-8 months | Low | Supplementary during drought conditions | Good |

General Description:

A high aesthetic system built for sustainability using quality components both organic and recycled.

