

SYSTEM SUMMARY

SKY GARDEN WILDFLOWER SEEDED SYSTEM SGWSS01

Version 1.2

SKY GARDEN WILDFLOWER SEEDED SYSTEM

Sky Garden's wildflower seed systems offer a cost-effective solution whilst still offering high biodiversity of species and aesthetic appeal once the system is fully established.

Wildflower seed is to be sown at 3g/m² over substrate with a minimum depth of 100mm.

It is essential that the seeds are watered immediately after installation to facilitate germination and growth.

The Sky Garden wildflower seed mix contains between 30-40 species of flowers and grasses to provide interest throughout the growing season.

Aluminium Separation Profile

Riverstone Border

Wildflower Seed

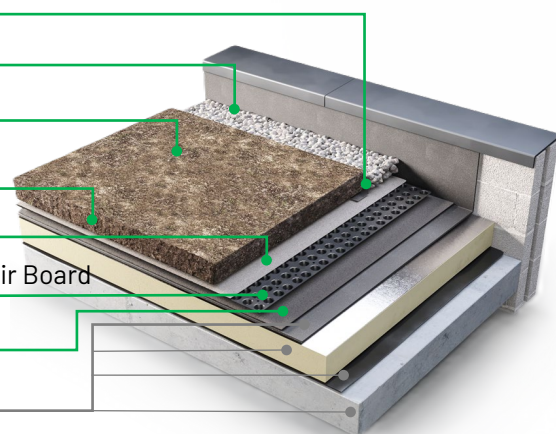
Bio-Diverse Substrate

2mm Filter Fleece

20mm Drainage / Reservoir Board

3.5mm Protection Fleece

Indicative Roof Build Up



APPLICATIONS

Systems are suitable for both new build and refurbishment. Roof pitches up to 15° can be greened but over 15° the system is not sustainable. Immature systems offer greater species diversity but take up to 36 months to establish with the correct roof management and maintenance systems in place. The system weight allows for inverted system ballasting as dry weights exceed 80kg/m².

MAINTENANCE

Immature systems require greater levels of maintenance during establishment. Open substrates can lead to weed invasion and bird damage is often experienced on these systems. There is a high need for irrigation, especially where shoots are used if installed late Spring – Summer.

IRRIGATION

Immature systems require an irrigation system during establishment, especially where shoots or plugs are used. Systems will be required through the first Summer and then periods of hot dry conditions.

ADDITIONS

Wildflower, cornflower, herbs or perennials can be added to enhance bio-diversity (additional seed mixes).

BENEFITS

- Greater species diversity
- Greater ecological function
- Better habitat and pollen/nectar provision

COMPONENTS INCLUDED

Protection Layer	Geo synthetic filter fleece	3.5mm
Drainage Layer	Drainage and retention cell	20mm
Filtration Layer	Geo synthetic filtration fleece	2mm (nominal)
Substrate Layer	Blended growing medium	+80mm
Vegetation Layer	Wildflower sseed	3g / m2
Number of Species	38	
Contour	System laid flat	



SYSTEM PERFORMANCE

System Water Reservoir Capacity	8-10L/m ²
System Weight Dry	98kg/m ²
System Weight Wet	126kg/m ²
Substrate runoff reduction	70%
Vegetation Coverage	0% at install
Flowering Season	Spring / Autumn
Typical Maintenance Visits Per Year	2
BREEAM Credits Available	Yes

ADDITIONAL ITEMS TO STANDARD SYSTEM OFFER









River Stone Detail (Edge)	500mm (20:40) Stone detail
River Stone Detail (Penetrations)	500mm (20:40) Stone detail
Metal Retention Detail	1.5mm bonded or ballasted system
Metal Separation Detail	1.5mm bonded or ballasted system
Irrigation	Recommended for establishment and periods of drought
Additional Species	Regional wildflower and cornflower over seed 1-2gms/m ²

HABITAT CREATION AND CONTOUR

Habitat Creation	Rock and log piles
System Contour	Light 20mm contour can be specified at design

BENEFIT MATRIX

Based on the sedum blanket system stated above the following benefits should be achievable:

Aesthetic Quality		Biodiversity	
Air Quality		Energy	
Urban Heat Island		Water Attenuation	
Acoustics		Maintenance	

(Ratings of the Benefit Matrix above: 1 – Icon Low Benefit, 2 – Icon's Medium Benefit, 3 – Icon's High Benefit)



BIODIVERSITY NET GAIN

A Wildflower blanket roof represents a significant biodiversity net gain for plant and animal species. Through its vegetation, the roof attracts pollinators, supports local wildlife, and enhances urban biodiversity. Its role in stormwater management, microclimate regulation, and soil health further amplifies its positive impact on ecosystem resilience and sustainability.



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