

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 GREEN ROOF SYSTEMS BIO-DIVERSE STANDARD

200mm 50:50 site sourced / supplied substrate Non seeded natural finish

## STANDARD SPECIFICATION (Seeded and Verdant Turf option to finish)

System Depth	System saturated weight	System minimum dry weight	Water attenuation	Standards	System Complexity	
	weight		capacity		complexity	
230mm	220-250kg/m₂	175kg/m2	40% initially	GRO, FLL,	3/5	
Comm		Dauth	De	BREEAM		
Component		Depth	Description / Function			
Rigid drainage layer		30mm	Rigid load bearing perforated drainage board with			
Filter layer		2mm	20mm stud. Reduced water retention capacity			
		2mm	Fine grade geo-synthetic filter layer mechanically fixed to drainage with loose layer that incorporates			
		100mm	the substrate layer above			
Aggregate layer		100/////	Site sourced aggregate screened and blended with			
Site sourced			imported material. (if available) graded to 8-50mm, cleaned and screened with minimal concrete and no			
			metal content			
Substrate law	Substrate layer (allowing for		Regionally supplied bio-diverse substrate comprising,			
	-	100mm	recycled crushed brick, 10% maximum, lightweight			
Settle	settlement)		organic compost, locally sourced sands, gravels,			
			composted bark & stone from local sources			
Svs	System		The substrate is designed to be very low in organic content and suitable			
		to the range of grasses and plants used in the Sky-Garden mix. The				
		substrate mixing with site materials is crucial to the bio-diversity and				
		maintenance of local fauna and flora.				
Root a	Root activator		Root activation granules within substrate		in substrate	
Contouring		Surface finish	Surface finish contoured to specification			
				requirements		
Surface finish		Surface finish	Blended areas of substrate 75%, river stones 5%,			
				bark 10% to max	,	
Surface habitats			Ground based habitats comprising locally sourced			
			stone piles and seasoned wood piles for bird, insect			
				mammal encour		
Syster	System finish		System left to self seed and evolve under		volve under	
			observation.			
Roof In	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.				

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Plant Layer	Controlled natural seeding and migration of plant material from the local	
	environment.	
Plant Range	Although this specification is for natural migration of plant material, Sky-	
	garden offer a range of regional seed mixes for bio-diverse roofs and the	
	exclusive Verdant Bio-Diverse Turf, (a careful blend of species designed	
	to cope with the stresses of a hot summer and a dry roof environment. It	
	is low maintenance and able to set seed quickly.)	
Edging Detail (not included as	Aluminium edging will be required on all exposed edges where retention is needed. This is	
standard, see estimate)	generally fixed using compatible adhesives or mechanically fixing by roofing contractor prior	
	to installation.	
River-Stone (not included as	All roof penetrations and system edges are finished with 300mm borders of washed river	
standard, see estimate)	stones, these offer additional ballasted weight and drainage for the system plus prevention	
standard, see estimater	of sedum invasion to drainage outlets or roof edges.	

Sky-garden provide a range of green roof systems to fit the requirements of this developing industry sector. Bio-diverse roofing (brown) utilises several key components, locally sourced, site sourced or recycled products. They have a high environmental and ecological function and although not exclusively are generally installed in urban areas both to new builds and refurbished systems. The systems can be high aesthetic but are generally seeded and left to evolve under minimal maintenance guidelines.

#### Establishment :

The system will take up to 6-8 months to begin greening and during this period and following establishment, inspections to remove incompatible species are required. The green roof will not require an irrigation system unless there has been planting.

#### 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 grass 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
0% allowing for self seeding	6-36 months depending on location	Low	Generally not required	Good

### **General Description:**

A high ecological and environmentally functioning system built for sustainability using quality components both organic and recycled.