

Sedum Plug for species diversity



General

The Plug Planted extensive green roof system creates a self sustaining plant community through the hand planting of pre-grown hardy Sedum plug plants into a substrate depth of 70-90mm depending on requirements.

With a range of 30+ species available, together with advice on selection, the green roof planting can be tailored to suit building geography, topography, orientation, shading, colour and/or flowering schemes.

Installed on a composite drainage & protection layer the system only requires irrigation during establishment.

Applications

Suitable for both new and refurbishment applications where site conditions or client requirements dictate flexibility in planting options i.e. partial to heavy shade or specific colour related themes/flowering periods. Ideal for roofs up to 8° pitch, the system can be installed up to 20° subject to specific specification and location. Once installed the plug plants require approximately 1-2 growing seasons to develop dependant on quantity of plug plants per m² and factors such as time of year at installation and local climatic conditions. Plug plant extensive green roof system can be installed over a variety of waterproofing technologies including asphalt, hot melt, liquid applied, reinforced bitumen single ply and standing seam aluminium.


Irrigation

The plug plant extensive green roof system will only require irrigation on installation depending on the time of year (typically required April to September). Once established the system requires minimal maintenance and no watering. Contact SIG D&T for specific advice and information on the TIS318 temporary irrigation team.

For further information on the individual component layers please see the relevant Product Data sheets.

Key	
Suitable	
Contact SIG D&T	
Not suitable	

Plant Cover	
At Installation (min)	<10%
Months to 100%	< 24
Primary Functions	
Amenity	
Aesthetics	
Biodiversity	
Habitat creation	
UK BAP compliance	
BREEAM benefit	
Rainfall management	
Carbon capture	
Thermal gain	
Acoustic benefit	
Primary Planting	
Sedum	
Wildflower	
perennial	
Shrub	
Grass	
System Types	
Extensive	
Intensive	
Biodiverse	
Green Wall	
Maintenance Required	
Yes	
Roof Constructions	
New	
refurbishment	
Warm	
inverted	
Cold	
Suitable Applications	
Flat	
up to 8° pitch	
up to 20° pitch	
up to 45° pitch	
up to 60° pitch	
Vertical	
Suitable Locations	

Performance and Properties		
<p>Plant Layer Hand cultivated hardy succulent plug plant species for use in extensive and biodiverse green roof systems.</p> <p>Produced from seed these young plants are produced with a 35mm or 50mm root ball and typically installed at a rate of 16 - 20 plugs per m² with higher rates required for steeper pitches or to increase diversity.</p> <p>Can be used to inter-plant NatureMat® sedum blanket to increase diversity.</p>	Life Expectancy	Lifetime of the Building (with maintenance)
	Maintenance	Annual
	Plant Coverage	< 10%
	Sedum species	See following page
	Root ball	35 or 50mm on shipment
		

<p>Growing Medium Vulkatec Extensive volcanic mineral based growing medium consisting of natural pumice, lava, bark compost, green compost, peat and xylith. Factory blended and stabilised against de-mixing to provide a high total pore volume balanced with good nutritive substance buffering for exceptional plant germination and growth.</p>	Life Expectancy	Lifetime of the Building
	Composition	lava rock and natural pumice green compost and xylith
	Installed depth	70mm settled depth, 20% settlement allowance at installation
	Weight m²	60 to 66kg/m ² depending on moisture content

<p>Drainage/retention board Factory laminated composite drainage board provides effective protection of the waterproofing whilst ensuring that water is both retained to help sustain plant life and drained to avoid water logging of the substrate.</p>	Life Expectancy	Lifetime of the Building
	Composition	300g/m ² UV resistant non-woven geotextile base, 20mm deep cusped and perforated recycled HDPE core, UV stabilised non-woven polypropylene filter fleece upper layer
	Installed depth	25mm
	Weight m²	6.26kg/m ² saturated

Total System Weight	Saturated	95 kgm ²
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Sedum Plug Species		Sedum Plug Species	
Native UK Species		Non Native UK Species	
Latin Name	Field Name	Latin Name	Field Name
Hylotelephium telephium	Telephium	Sedum ewersii var. homophyllum 'Rosenteppich'	Rosenteppich
Sedum acre	Goldenmoss Stonecrop	Sedum floriferum	Floriferum
Sedum album	White Stonecrop	Sedum forsterianum var. elegans 'Silver Stone'	Elegant Forsterianum
Sedum anglicum var. minus	Anglicum	Sedum hybridum 'Immergrunchen'	Imergrunchen
Sedum forsterianum	Forsterianum	Sedum kamtschaticum 'f. variegatum'	Variegated kamtschaticum
Sedum rupestre (S. reflexum)	Reflexum	Sedum kamtschaticum var. floriferum	Kamtschaticum
Sedum sexangulare	Sexangulare	Sedum kamtschaticum var. floriferum 'Weihenstephaner Gold'	Weihenstephaner
		Sedum middendorffianum	Middendorffianum
		Sedum Montanum	Montanum
		Sedum montanum 'Orientale'	Oriental Montanum
		Sedum oreganum subsp. oreganum	Oreganum
		Sedum pachyclados	Pachyclados
		Sedum populifolium	Siberian Stonecrop
		Sedum sarmentosum	Sarmentosum
		Sedum selskianum	Selskianum
		Sedum spathulifolium subsp. pruinosum 'Cape Blanco'	Cape Blanco
		Sedum spathulifolium subsp. pruinosum var. purpureum	Purple cape blanco
		Sedum spectabile 'Meteor'	Meteor
		Sedum spurium 'Tricolor'	Tricolor
		Sedum spurium 'Album Superbum' ('Green Mantle')	Album superbum
		Sedum spurium 'Fuldaglut'	Fuldaglut
		Sedum spurium 'Purpurteppich' ('Purple Carpet')	Purple carpet
		Sedum spurium 'Roseum'	Roseum
		Sedum spurium 'Summer Glory'	Summer glory
		Sedum spurium 'Voodoo'	Voodoo
		Sedum stenopetalum	Stenopetalum
		Sedum 'Stewed Rhubarb' (Telephium x Telephioidies)	Stewed rhubarb
		Sedum takesimense	Takesimense

Non Native UK Species	
Latin Name	Field Name
Delosperma cooperi	Purple Ice Plant
Delosperma nubigenum (Mesembry. basutoland)	Yellow Ice Plant
Hylotelephium telephium subsp. 'Maximum'	Telephium Max
Hylotelephium telephium subsp. Ruprechtii 'Hab Grey'	Hab Grey
Hylotelephium telephium subsp. Telephium 'Emperor's Wave'	Emperors Wave
Saxifraga aizoon (Sedum aizoon)	Mountain Saxifrage
Sedum acre 'Aureum'	Acre aureum
Sedum aizoon	Aizoon
Sedum album 'Bella d'Inverno'	Variegated Album
Sedum album 'Athoum' (S. athoum)	Athoum
Sedum album 'Coral Carpet'	Coral Carpet
Sedum album 'f. Murale'	Album murale
Sedum cauticola 'Hidakense'	Cauticola
Sedum cauticola 'Lidakense'	Mini cauticola
Sedum cauticola 'Robustum'	Big cauticola
Sedum ellacombianum	Ellacombianum
Sedum ewersii var. cyclophyllum	Ewersii