SEDUM VEGETATION BLANKET XF300

The XF300 Sedum Blanket utilises the vegetation support layer and is installed over a substrate base of around 80mm depth which allows for increased rainwater attenuation capacity, thus reducing the level of rainwater entering the drainage system.

KEY FEATURES

- Delivers instant greening of a roof with sedums and other species all able to flourish in our climate
- Quick and easy to establish
- Cost effective
- Developed to meet FLL guidelines
- Cradle-to-Cradle certification
- Sedum blankets are grown on our farm in the UK and delivered to site within 24 hours of harvesting

The patented carrier of the Xero Flor XF300 Sedum Blanket provides a strong, flexible soil retention layer able to hold both the substrate and vegetation firmly in place against wind and sheer loads whilst allowing the roots to grow through and establish into the substrate of the green roof system below.

The sedum vegetation is the same as is used in our Xero Flor XF 301 and will provide dense foliage cover with a lot of colour and interest through the spring and early summer.

The product can be supplied in 10m rolls for crane-assisted installation and is also available in standard 2 \times 1m roll sizes.

For further information on the Bauder XF300 Sedum Blanket please see the Bauder Green Roof Vegetation Installation Guide and the Bauder Extensive Green Roof Maintenance Guide, both of which can be found at www.bauder.co.uk.

BAUDER SEDUM BLANKET XF300 INDICATIVE PLANT LIST

Species
Sedum acre
Sedum album - 'bella d' Inverno
Sedum album - coral carpet
Sedum ewersie
Sedum Kamtschaticum - ellacombianum
Sedum Kamtschaticum - weinstephaner gold
Sedum montanum orientale
Sedum pulchellum
Sedum rupestri (reflexum)
Sedum sexangulare
Sedum spurium - mesemlanthemum = $Delosferma$
Sedum spurium - mesemlanthemum = hallii
Sedum verticillatam





WILDFLOWER BLANKET XF118

Xero Flor XFI18 wildflower blanket has been developed to meet the growing demand for a native species vegetation blanket to satisfy the requirements of both BREEAM and Sustainable Homes codes. The product utilises the technology and much of the experience that we have gained over the last 15 years in growing and installing sedum-vegetated blankets, and as a result shares many of the benefits of these proven products.

The 24 species of wildflowers and herbs incorporated into the blanket have been selected to provide a viable and vibrant plant community whilst also delivering a range of native species that will be present on most of the biodiversity action plan lists that project-specific ecology reports now demand.

The unique blanket carrier incorporates a polypropylene mesh stitched to a permeable geotextile membrane, which ensures minimum compaction of the blanket substrate whilst allowing the vigorous root growth of the wildflowers to quickly establish into the substrate installed underneath.

Whilst the XFI18 wildflower blanket is always installed as part of an extensive, substrate-based green roof system, the weight of the build-up and its establishment and ongoing maintenance requirements are amongst the lowest for this type of system.

KEY FEATURES

- Lightweight green roof system, making it ideal for retrofitting on a building or on new build construction.
- Effective solution where BREEAM and Sustainable Homes codes require a biodiversity strategy
- Delivers instant greening of a roof with native species wildflower plants
- Cost effective
- Cradle-to-Cradle certification
- Vegetation blankets are cultivated by Bauder and delivered to site within 24 hours of harvesting

Key to the success of the Bauder XFI18 Wildflower Blanket is whether it is being specified to support the ecology or if its visual appearance will be the primary requirement. If the former is required then a basic level of irrigation and maintenance after installation will be sufficient, and if the latter then a greater level of maintenance and irrigation will be of much assistance in achieving the desired effect.

For further information on the Bauder XF118 Wildflower Blanket please see the Bauder Green Roof Vegetation Installation Guide and the Bauder Extensive Green Roof Maintenance Guide, both of which can be found at www.bauder.co.uk.







XF118 WILDFLOWER INDICATIVE SPECIES LIST

Botanical Name	Height	Blossom	Flowering Season
Achillea millefolium	8-40 cm	White	June-August
Armeria maritima	5-20 cm	Pink	April-October
Bellis perennis	3-12c m	White / Yellow	March-October
Campanula glomerata	3-30 cm	Blue	June-October
Campanula rotundifolia	15 cm	Blue	July-September
Centaurea cyanus	20-50 cm	Blue	June-August
Centaurium erythrea	10-40 cm	Pink	July-August
Dianthus deltoides	15-30 cm	Pink	April-October
Echium vulgare	30-60 cm	Blue	June-September
Galium verum	15-60 cm	Yellow	July-August
Geum rivale	20-40 cm	Pink	April-August
Linaria vulgaris	20-40 cm	Yellow	July-September
Lotus corniculatus	10-20 cm	Yellow	June-September
Lychnis flos-cu-culi	50-60 cm	Pink	May-August
Papaver rhoes	20-60 cm	Red	June-August
Pilosella aurantiaca	20-60 cm	Orange	July-October
Prunella vulgaris	5-20 cm	Purple	June-October
Rhianthos minor	30-50 cm	Yellow	May-August
Saponaria officianalis	20-40 cm	Light Pink	July-September
Scabiosa columbaria	15-50 cm	Blue	July-October
Sedum acre	5-10 cm	White / Yellow	July-August
Silene uniflora	8-25cm	White	June-August
Silene vulgaris	25-50 cm	White	June-August
Thymus polytricus	4-10 cm	Mauve	May-August





TRADITIONAL PLUG PLANTS

Bauder offers a range of vegetation in plug plant format for use in green roof installations. The plants have individual structure and form and the variety of colours provide a diverse aesthetic appearance of the roof.

KEY FEATURES

- Broad palette of plants for varied aesthetic appearance.
- Greater depth of substrate enables a broader range of plant species to be incorporated on the roof
- Increased rainwater attenuation capacity compared to XF301 vegetation blanket installations
- Cost effective on large roofs

PLANT TYPES

Sedums –These succulent plants are drought, wind and frost tolerant, will steadily grow and spread to provide an even vegetative cover over time.

Wildflowers, Herbs and Grasses - For greater biodiversity and interest, we also provide a mix of wildflowers, herbs and grasses, to be incorporated with sedums at the rate of 2 sedums to 1 other species.



SEDUM PLUG PLANTING SELECTION

Available as 4 cm units. Recommended substrate depth of 80 mm

Sedum acre30 mmYellowCSedum acre aurea50 mmYellowCSedum alzoon400 mmYellowCSedum alzon100 mmOpaqueCSedum alzon100 mmOpaqueCSedum alzon 'Murale'150 mmWhiteCSedum alzon 'Murale'150 mmPinkCSedum alzon 'Laconicum'150 mmPinkCSedum alzon 'Laconicum'150 mmPinkCSedum anacampseros150 mmPinkCSedum anacampseros150 mmPinkCSedum anacampseros150 mmPinkCSedum floriferum100 mmYellowCSedum floriferum100 mmYellowCSedum hybridum150 mmYellowCSedum kantschatikum200 mmYellowCSedum hybridum150 mmYellowCSedum kantschatikum200 mmYellowCSedum kantschatikum150 mmYellowCSedum kantschatikum150 mmYellowCSedum kantschatikum150 mmYellowCSedum sarmentosum150 mmYellowCSedum sartifician var.150 mmYellowCS	Botanical Name	Height	Blossom	Exposure (sun or shade)	Shallow Substrate Option (60mm depth)
Sedum aizoon400 mmYellowSedum aizon100 mmOpaqueSedum aizon100 mmOpaqueSedum aizon 'Murata'50 mmWhiteSedum aizon 'Coral Carpet'150 mmPinkSedum aizon 'Murate'150 mmPinkSedum aizon 'Murate'150 mmPinkSedum aizon 'Laconicum'150 mmPinkSedum aizon 'Laconicum'150 mmPinkSedum acampseros150 mmPinkSedum cauticolum200 mmReddishSedum forsteranum150 mmYellowSedum forsteranum150 mmYellowSedum hybridum150 mmYellowSedum hybridum150 mmYellowSedum karntschatikum200 mmYellowSedum hybridum150 mmYellowSedum hybridum150 mmYellowSedum karntschatikum200 mmYellowSedum karntschatikum200 mmYellowSedum karntschatikum150 mmPinkSedum karntschatikum150 mmYellowSedum sarmentosum150 mmYellowSedum sarmentosum120 mmYellowSedum spathulifolium150 mmYellowSedum spurium 'kaukasus-sedum120 mmRedSedum spurium Yalbum120 mmRedSedum spurium 'Tri-color'' <td>Sedum acre</td> <td>30 mm</td> <td>Yellow</td> <td>¢</td> <td></td>	Sedum acre	30 mm	Yellow	¢	
Sedum album100 mmOpaqueImage: Constraint of the set of t	Sedum acre aurea	50 mm	Yellow	\$	
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Sedum kantschaticum var.I 50 mmRed / YellowCSedum kantschaticum var.I 50 mmPinkCSedum lydiumI 50 mmPinkCSedum reflexumI 50 mmYellowCSedum sarmentosumI 20 mmYellowCSedum selskianum50 mmLight YellowCSedum sexangulare50 mmYellowCSedum spathulifoliumI 50 mmYellowCSedum spathulifoliumI 50 mmYellowCSedum spurium 'coccineum'I 50 mmRedCSedum spurium kaukasus-sedumI 20 mmRedCSedum spurium 'AlbumI 20 mmPink / WhiteCSedum spurium 'Tri-color"I 20 mmPink / YellowC	Sedum hyspanicum	100 mm	White		
Sedum lydiumI 50 mmPinkSedum reflexumI 50 mmYellowImage: Constraint of the second se	Sedum kamtschatikum	200 mm	Yellow		
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Sedum sarmentosum 120 mm Yellow Image: Constraint of the second se	Sedum lydium	150 mm	Pink		
Sedum selskianum 50 mm Light Yellow C Sedum sexangulare 50 mm Yellow C Sedum spathulifolium 150 mm Yellow C Sedum spurium 'coccineum' 150 mm Red C Sedum spurium kaukasus-sedum 120 mm Red C C Sedum spurium 'Album 120 mm Pink / White C C Sedum spurium "Tri-color" 120 mm Pink / Yellow C C	Sedum reflexum	l 50 mm	Yellow		✓
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Sedum spathulifolium 150 mm Yellow C Sedum spurium 'coccineum' 150 mm Red C Sedum spurium kaukasus-sedum 120 mm Red C Sedum spurium 'Album 120 mm Pink / White C Sedum spurium 'Tri-color'' 120 mm Pink / Yellow C	Sedum selskianum	50 mm	Light Yellow		
Sedum spurium 'coccineum' 150 mm Red Image: Construction of the spurium construction o	Sedum sexangulare	50 mm	Yellow		
Sedum spurium kaukasus-sedum 120 mm Red Sedum spurium 'Alburn 120 mm Pink / White Sedum spurium 'Tri-color'' 120 mm Pink / Yellow	Sedum spathulifolium	150 mm	Yellow	¢	
Sedum spurium 'Album I 20 mm Pink / White Image: Constraint of the spurium 'Tri-color'' Sedum spurium 'Tri-color'' I 20 mm Pink / Yellow Image: Constraint of the spurium 'Tri-color''	Sedum spurium 'coccineum'	150 mm	Red	\$	✓
Sedum spurium "Tri-color" I 20 mm Pink / Yellow	Sedum spurium Kaukasus-sedum	l 20 mm	Red	*	✓
· · · · · · · · · · · · · · · · · · ·	Sedum spurium 'Album	l 20 mm	Pink / White	\$	√
Sedum telephium' 400 mm Red 🗘 🗸	Sedum spurium "Tri-color"	l 20 mm	Pink / Yellow	\$	
	Sedum telephium'	400 mm	Red	¢	

SPECIES SELECTION

Bauder Species Selection

Our Green Roof Technical Team provides a service whereby we will select the type of plants best suited to the building location, height of the roof, slope and orientation. This helps to ensure that the optimum mix is selected and reduces loss of individual species because of incorrect specification.

If any species is not available we will provide alternative species from the growers stock.

Client Selection from Stock

The client may have a preference for the species to be planted and can do so from our large range of traditional plug plants. These plants are grown as standard supply stock and are available on confirmation of quantity. This list indicates the regular varieties offered, and if any are not available, due to previous high demand, we will suggest alternatives prior to delivery.

Custom Growing of Plug Plants

On larger developments, where specific requirements for an exact combination of vegetation mix is required we are able to propagate the plants to suit the project. This service requires sufficient notification of species and quantities required as well as adequate lead time to enable the specified plants to reach established early stage growth before the predetermined delivery date. This could be as much as eight months.

Custom grown plug plants will incur additional charges should the order be modified or cancelled prior to delivery.

This bespoke service is arranged with your Area Technical Manager or the Green Roof Technical Team.



MIX PERENNIAL PLUG PLANTING SELECTION

(including wildflowers, herbs and grasses etc) - Available as 5-6cm units. Recommended substrate depth of 80mm

Botanical Name	Height (mm)	Blossom	Exposure (sun or shade)	Shallow Substrate Option (60mm depth)
Achillea millefolium	350	White	¢	
Achillea tomentosa	I 50	Yellow	*	
Allium schoeneprasum	300	Lilac	¢	
Allium sphaerocephalon	400	Purple	¢	
Allium moly	250	Yellow	<u></u>	
Alyssum saxatile	I 50	Yellow	¢	
Antennaria dioica	l 50	Reddish	<u></u>	
Armeria maritima	50	Red	¢	
Campanula poscharskyana	50	Blue	<u></u>	
Campanula rotundifolia	200	Blue	*	
Cerastium tomentosum	200	White	0	
Dianthus alpinus	00	Pink	¢	
Dianthus deltoides	50	Red		
Dianthus carthusian	450	Red	<u> </u>	
Dianthus caesius	50	Pink	<u> </u>	
Dianthus plumarius	250	Pink	^	
Euphorbia cyparissias	250	Yellow	- <u>+</u>	
Euph.myrsinitis	50	Yellow	 ¢	
Fragaria virids	00	Opaque	<u> </u>	
Gypsophylla repens	100	Pink		
Geranium macrorrhizum		Pink		
Geranium sanguineum		Lilac		
Geranium x cantabrigiense	250	Pink / White		
Heianthemum num.		Yellow		
Hyssopus officinalis	400	Blue	·	
Inula ensifolia	400	Yellow		
Iris pumila	300	Blue	- <u>~</u>	
jovibarba hirta		Yellow	·~~	
Lavandula angustifolia	400	Blue		
Lychnis alpina		Pink		
Linum perenne	300	Blue		
Muscari	250	Blue	·~~	
Nepeta fasseni	250	Blue		
Origanum vulgaris	150	Pink	<u> </u>	
Petrorhagia saxifraga	150	Pink	·	
Potentilla aurea	150	Yellow		V
Potentilla verena	50	Yellow	- <u>~</u>	/
Prunella vulgaris		Violet	·	V
Saponaria ocymoides	100	Pink		
Sanguisorba minor	100	White	- <u>~</u>	
Scabiosa canescens	350	Blue	- <u>~</u>	
Satureja montana		Lilac	- <u>~</u>	
Saxifraga aizoon	100	White	- <u>~</u>	
Saxifraga arendsii	100	Red / Pink	- <u>~</u>	
Saxifraga umbrosa		White		
Sempervivum	100	Pink		
Silene maritima		White	- <u>~</u>	v
Teucrium chamaedrys		Pink	- 	
Thymus serpyllum		Pink		
Thymus serpyilum Thymus vulgaris	250	Pink	<u> </u>	V
Verbascum phoenicum		Blue	<u> </u>	
,		Yellow	<u> </u>	
Verbascum nigrum			<u> </u>	
Veronica teucrium	180	Blue	*	

UK PROVENANCE NATIVE SPECIES PLUG PLANTS

The introduction of the BREEAM and Sustainable Homes codes has lead to a significant change in the requirement for the supply of vegetation to be incorporated into green roofs. Whereas sedum species have been widely used in green roofs for many years, the incorporation of native species varieties, which include grasses, herbs and wildflowers, provides a fresh challenge for the specifier.

To keep pace with changing market demand, we have worked with an established UK grower of wildflowers to make available a range of native species vegetation, grown from UK provenance seed stock, all of which will flourish in traditional substrate-based green roof systems. This provides a broad palette from which the project ecologist may ask us to select or alternatively may wish to select for themselves, to secure the credits needed to meet the scheme requirement.

BREEAM AND SUSTAINABLE HOMES CODES

In considering how green roofs will support both BREEAM and Sustainable Homes code projects, a number of credits can be secured in the Land Use and Ecology section by improving the ecological value of the site. This is achieved by increasing the number of locally significant species as specified by a registered ecologist found on the site after construction. The calculation is dependant upon the number of species included and the green area of the roof.

KEY FEATURES

- Broad palette for ecologically focused green roofs
- UK provenance plants
- Greater depth of substrate enables a broader range of plant species to be incorporated on the roof
- Increased rainwater attenuation capacity compared to XF301 vegetation blanket installations
- Cost effective on large roofs

SPECIES SELECTION

Bauder Plant Community Selection Service

Our Green Roof Technical Team provides a service whereby we will select the type of plant community suited for the biodiversity action plan for the roof. Generally, there are four categories that we look to provide; grassland, chalk soil, wildflower meadow and coastal tolerant plants. If any species is not available we will provide alternatives from the growers stock.

Client Selection

The client may self-select the plants required from our large range of UK provenance plug plants. These plants are grown as standard supply stock and are available on confirmation of quantity. This list indicates the regular varieties offered, and if any are not available, due to previous high demand, we will suggest alternatives prior to delivery.

Custom Growing of Plug Plants

On larger developments, where specific requirements for an exact vegetation mix is required we are able to propagate the plants to suit the project. This service requires notice of a full season to enable the specified plants to reach sufficient early stage growth, furthermore a deposit is required at the time of placing the order and additional charges will arise should the order be modified or cancelled prior to delivery

This bespoke service is arranged with your area Technical Manager or the Green Roof Technical Team.





UK NATIVE SPECIES PLUG PLANTS SELECTION

Botanical Name	Height (mm)	Blossom	Exposure (sun or shade)	Plugs	Bare Root Stock
Achillea millefolium	250	White	ंक	1	
Anthyllis vulneraria	50	Yellow		1	
Armeria maritima	20	Pink		1	
Bellis perennis	30	White / Yellow	` (1	
Briza media	30	N/A (Grass)	¢		
Campanula rotundifolia	120	Blue	¢	1	
Campanula glomerata	150	Blue	\$	1	
Carex flacca	150	Blue foliage	्	1	
Daucus carota ssp maritimus	150	White	¢	1	
Festuca ovina	300	N/A (Grass)	्		
Festuca rubra ssp ruba	300	N/A (Grass)	•	1	
Fragaria vesca	50	White	\$₩	1	
Galium verum	150	Yellow	0.	1	
Geranium robertinum	50 - 200	Blue / Pink	\$₩	1	
Helianthemum nummularium	80	Purple	ं	1	
Hypericum perforatum	150	Yellow	ंक	1	
Hypochaeris radicata	150	Yellow	¢	1	
Leontodon autumnalis	80	Yellow	ंक	1	
Leontodon hispidus	80	Yellow	¢	1	
Leucanthemum vulgare	200	White / Yellow	\$	1	
Linaria vulgaris	150	Yellow	` *	1	
Lotus corniculatus	50	Yellow	¢	1	
Origanum vulgare	150	Mauve	ः	1	
Plantago coronopus	80	Brown	¢	1	
Plantago lanceolata	150	White	्	1	
Primula veris	120	Yellow	्	1	
Prunella vulgaris	50	Purple	ः	1	
Ranunculus bulbosus	200	Yellow	\$	1	
Sanguisorba minor	150	Pink	\$	1	
Scabiosa columbaria	250	Blue	\$	1	
Sedum acre	60	Yellow	\$	1	
Sedum album	100	White	¢	1	
Silene latifolia ssp. alba	200	White		1	
Silene maritima	120	White	\$	1	
Silene vulgaris	200	White	\$	1	
Thymus polytrichus	40	Mauve	` (1	
Viola riviniana	50	Purple	\$₩	1	
Viola tricolor	50	Purple / Yellow	¢	1	

All plants are grown in peat-free compost

Please note that Bauder Ltd cannot guarantee the supply of the exact mix of vegetation ordered.

KS PLUS SEED MIXTURE

The Bauder KS PLUS seed mix is a carefully balanced blend of 27 stonecrop, wildflower and herb species, which provide a healthy plant community that will give good ground cover in a broad range of green roof applications. The seeds are mixed with fine bulking aggregate, seed adhesive, organic nutrients and mycorrhizal fungi to encourage water and nutrient uptake by the plant.

The mix of species has been developed to ensure that the stonecrops will provide a good level of ground cover, which will both stabilise the growing medium and give shelter to the herbs and wildflowers to grow through and give the appearance of a wild grass and flower meadow.

SPECIES LIST BAUDER-SEED MIXTURE KS-PLUS

Botanical Name	Blossom	Exposure (sun or shade)	Origin
Achillea millefolium	White	ം	Н
Anthemis tinctoria	Yellow	¢	Н
Campanula rotundifolia	Purple	 ¢ ≢	Н
Dianthus carthusianorum	Pink	 ¢ ≢	Н
Dianthus deltoides	Pink	`	Н
Fragaria vesca	White	 ¢ ≢	Н
Geranium sanguineum	Pink / Purple		Н
Hieracium pilosella	Yellow	 Ç #	Н
Leucanthemum vulgare	White / Yellow	ंक	Н
Linum perenne	Blue		Н
Muscari comosum	Violet	¢	Н
Origanum vulgare	Pink		Н
Papaver rhoeas	Red	¢	Н
Petrorhagia saxifraga	White / Pink		Н
Potentilla argentea	Yellow	- •	Н
Salvia pratensis	White / Pink	- ••	Н
Sedum acre	Yellow	- -	S
Sedum album	White		S
Sedum ellacombianum/ (selskianum hort.)	Yellow	<u>`</u>	S
Sedum hispanicum	White / Pink	¢	S
Sedum montanum	Yellow		S
Sedum sexangulare	Yellow		S
Sedum spurium	Pink		S
Teucrium chamaedrys	Purple / Pink	¢	Н
Thymus pulegioides	Lilac	¢	Н
Verbascum nigrum	Yellow		Н
Veronica spicata	Blue	0.0	Н

Other Components:

Mycorrhizal fungi, carrier, nutrients, bonding compound





H = HerbaceousS = Stonecrop

INSTALLATION AND MAINTENANCE

Key to the success of any green roof installation is the care taken of the vegetation at the time of installation and immediately thereafter to ensure that it establishes in its new location and will require only minimal maintenance to keep it in good condition in the future.

 situations. For further information please see the green roof section of our al website, bauder.co.uk, for our guides on Bauder Installation, Maintenance and Watering appropriate to the vegetation and system.

Whilst every installation will have a marginally different requirement, dependent upon a broad range of factors, the following information is

BAUDER VEGETATION BLANKETS (XF301, XF300 & XF118)

Harvesting and Delivery to Site

The Bauder vegetation blankets are harvested and transported to site within 24 hours and so deliveries to a building project only occur on Tuesday-Friday.

On-site Requirements

A water supply at roof top level is required during the installation of any vegetation blanket. Once an area of installation is completed the vegetation blanket is heavily watered to ensure that the plants and substrate are saturated before moving on to the next area.

The installation pattern is quite straightforward and will be devised by the Bauder Approved Contractor to suit the roof shape, orientation and pitch. Upon completion of the installation, Bauder organic slow release fertiliser is applied and watered-in to assist the plants' establishment and providing them with nutrients to promote growth.

Vegetation Barriers

Vegetation barriers are created and installed by using 20 - 40mm round washed pebbles at the perimeters, upstands and abutments and provides protection against wind uplift at the edges of the blanket as well as rapid surface drainage during heavy rainfall.

XF301 Combination Sedum Blanket

The XF301 Sedum Blanket already incorporates the depth of substrate required in to which the plants are established.

XF300 Sedum Blanket and XFI18 Wildflower Blanket

These vegetation blankets are installed over a depth of substrate which will be levelled and watered to the point of saturation before the blankets are positioned. If large areas are to be installed then watering and installation is done in sections of as much area as can be completed within 4 hours.

Post Installation Watering Requirements

The vegetation blankets will require a post-installation irrigation period of 4 weeks for sedums and 10 weeks for wildflowers where the blankets should not be allowed to dry out. The amount of watering the plants will require depends upon the location of the building, the roof type and degree of pitch, local climate and exposure levels and the type of plants in the vegetation blanket.

It may also be necessary to irrigate for longer than this if installation is followed by a warm, dry spell of weather. To encourage the plants to survive without topical irrigation and harden them ready to survive the winter it is important to start cutting back watering from early September. The maintenance requirement in the years following installation will depend upon the weather experienced through the winter and early spring of each year and should follow our standard extensive green roof maintenance guidelines, excepting where weather conditions have caused significant damage to the vegetation.



intended to provide a general insight into what will be needed in most

Rolls being harvested and prepared for delivery.



▲ Long length rolls being craned into position and installed.



▲ Bauder SS40 Drainage and Edge Trim

INSTALLATION AND MAINTENANCE

BAUDER PLUG PLANTS

Delivery to Site

The plant trays will be delivered either shrink-wrapped on pallets or sealed in cardboard boxes which should either be placed in a cool area out of direct sunlight for overnight storage or opened, the plug trays spread around and watered and left overnight to acclimatise.

In exceptional weather we are unable to make available the plugs for delivery until conditions improve. We are only able to advise three days before delivery if such a problem occurs.

We recommend that plug plants are installed in the periods from mid-March to the end of May and September to October. If it is necessary to carry out an installation outside of these periods, please contact Bauder Technical Services for advice before proceeding with the works.

On-site Requirements

A water supply at roof top level is required during the installation of plug plants. Once an area of installation is completed the area is heavily watered to ensure that the plants and substrate are saturated before moving on to the next area.

The plug plants in their trays are saturated prior to the commencement of planting out. Plugs are placed in groups of 5-13 of the same species, dependent upon the overall roof size, at the density per m^2 as specified. The completed area is watered to saturation point before moving on to the next section.

Upon completion of the installation Bauder organic slow release fertiliser is applied at a rate of $80g/m^2$ and watered in.

Vegetation Barriers

Vegetation barriers are created and installed by using 20-40mm round washed pebbles at the perimeters, upstands and abutments and provide protection against wind uplift at the perimeter as well as rapid surface drainage during heavy rainfall.

Post Installation Watering Requirements

After completion of the installation it will be necessary to keep the substrate and plants damp for a period of at least 4 weeks immediately afterwards for traditional plugs and 10 weeks for native species plugs, and it may be necessary to irrigate for longer than this if installation is followed by a warm, dry spell of weather. To encourage the plants to survive without topical irrigation and harden them ready to survive the winter it is important to start cutting back watering from early September.

The anticipated period of establishment to provide good vegetated cover is at least two full years. The maintenance requirement over this period will depend to a large extent upon the weather experienced through the winter and early spring of each year and should follow our standard extensive and biodiverse green roof maintenance guidelines, excepting where weather conditions have caused significant damage to the vegetation.









INSTALLATION AND MAINTENANCE

KS PLUS SEED MIXTURE

The seeds are pre-mixed with nutrients, fertiliser and a tackifying carrier which bulks out the volume to aid installation whilst also providing the ideal nutritional background to support initial establishment.

Substrate Requirements

The seeds require sufficient depth of Bauder extensive substrate to support the roots of the plants once they are fully established. This is a lightweight growing medium that is manufactured to FLL standards which is then topdressed with Bauder Seed Bed Substrate, which has a finer consistency and higher level of organic matter to enable the seeds to germinate.

The substrate is watered sufficiently, almost to saturatation, before the seed mix is broadcast on the roof.

Sowing Rate

The seed mix has a coverage rate of 1 Kg to 10m^2 of roof area and is provided in either 2 Kg or 5 Kg bags. The seeds will only be sown in fair weather, as strong winds will disperse the seeds before they reach the substrate.

Even coverage is gained by sowing 50% of the mix longitudinally down the roof, and then over-sown at 90° with the remainder of the seed mix.

Best results are achieved from spring and autumn sowings; however the mix can be sown throughout the year.

Establishment

Due to the components incorporated within the seed mix there is no requirement for establishment maintenance. It is advisable to ensure that the roof surface is not trafficked other than for essential roof maintenance for the first 12 months after sowing. Bare patches can been over-sown if considered necessary, but will develop vegetative cover over time in any case. The anticipated period of establishment to provide a good vegetated cover is at least two years.



After about 8 weeks



At 12 - 16 weeks



▲ The second growing season



After a few years