



Eco Green Roofs Ltd

Unit 3 Rays Barn Farm Ingatestone, Essex

CM4 9EH

Project Name: UCL Gordon Street

O&M Manual

Systems Installed:

EGR Green Roof System

Installers and Manufacturers: Eco Green Roofs Ltd

Contract Manager: James Stroman

Prepared by : S Vincent

Date : 15/05/17



Caledonian Pebbles 20-40mm - Data Sheet

DESCRIPTION

20-40mm rounded washed river stones sourced from the Moray Firth. Naturally rounded pebbles.

SAFETY DATA

In the condition sold, the product does not present a hazard to health. The products are not required to carry a hazard label under the chemicals (Hazard information and packaging for supply) Regulations 1994 (CHIP 2).

When chipped, stone particles can cause damage to the eyes. Eye protection to B.S. EN 166 should be worn.

When products are mechanically crushed, respirable dust will be produced which can contain silica (quartz). Engineering control measures should be employed to keep airborne dust to a minimum. If adequate local exhaust ventilation equipment is not provided, dust masks, or their equivalent, to type FFP2 should be worn.

FIRE

There are no direct risks of fire or explosion from this product.

OFF-LOADING

Ensure that the lifting equipment is suitable and will carry the weight.

FIRST AID

Where particles enter the eye, irrigate well with copious amounts of clean water. Seek medical attention, if necessary.

Inhalation of dust, remove to fresh air and seek medical attention, if necessary.

DISPOSAL

Waste from stone is easy to handle, non-toxic and inert. However, its storage and disposal should be carried out in accordance with section 34 of the Environmental Protection Act: Waste Management – The Duty of Care.



This information is offered for guidance purposes only. No warranty is implied or given.



Eco Greenroofs Extensive Bio Diverse Substrate

DESCRIPTION

A blend of water retaining aggregates, crushed brick and organic material mixed to provide an extensive substrate to meet customer specifications.

COMPOSITION

All substrates are composed of composted material from sustainable sources, the crushed brick element is a by-product or a second from the brick manufacturing industry and therefore contains no demolition waste.

Loose Bulk Density:	800 – 950 Kg/m ³
Saturated Density:	Approx.1200 kg/m ³
pH Value:	6.5 – 7.5
Available in:	Plastic sacks on pallets Bulk bags Loose bulk Silo tanker

Extensive substrates are a versatile lightweight general purpose green roof growing media ideal for sedum matting systems and substrate based systems supporting hardier lower maintenance plants such as sedum, wild flowers and grasses. These mixes are used in a wide range of projects from large industrial or commercial buildings to smaller domestic properties.

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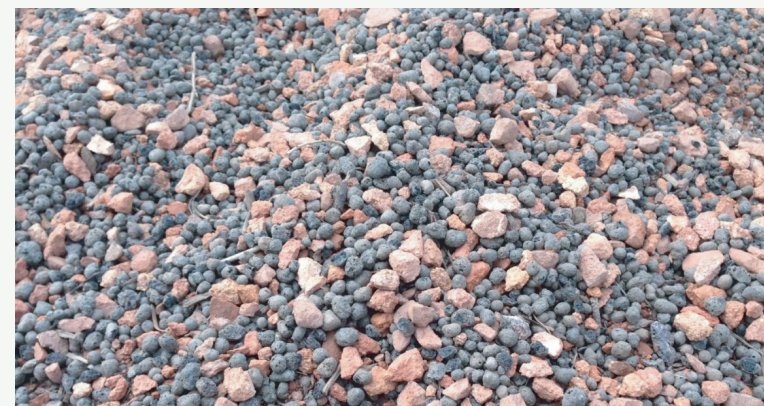
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SEDUM ACRE AUREUM

This mat-forming Sedum is composed of tiny bright green leaves on short, ascending stems. It spreads itself, making it ideal for rush, bright coverage on a green roof. Its leaves are bright green with yellow young growth and there are starry yellow flowers in late spring and summer that come at the tips of the stalks.

Height	100mm	Hardiness	Fully Hardy
Spread	250mm	Conditions	Sun / Rain



SEDUM ALBUM CORAL CARPET

Coral Carpet is a mat-forming, evergreen Sedum with small, fleshy, red flushed leaves come alive in late spring to early summer with pink-tinted, white star-shaped flowers. Coral Carpet foliage is Green, Flushed red in All seasons. The use of this in our Sedum Blanket means vibrant and fullcolour all year round.

Height	50mm	Hardiness	Fully Hardy
Spread	250mm	Conditions	Sun / Rain



SEDUM ALBUM ATHOUM

The species is green foliaged, with starry white or pink blooms held on wiry stems. Sedum album needs little water once established. This is the base Sedum for our Blankets

Height	50mm	Hardiness	Fully Hardy
Spread	300mm	Conditions	Sun / Rain



SEDUM ALBUM MINI

The fact that this plant was originally found in the Faro Isles should tell you something about its hardiness, and also explains why it's so diminutive and tiny. Don't let its small size and dainty appearance fool you - this is one tough little plant. It displays all the same characteristics as Athomb.

Height	50mm	Hardiness	Fully Hardy
Spread	100mm	Conditions	Sun / Rain



SEDUM HISPANICUM

A very low, mat forming Sedum with tiny silver-blue leaves. Starry pink to white flowers. Enjoys poor, well drained growing medium so ideally suited to live in our green roof substrate. Blooms in June. Evergreen therefore maintains its colour throughout winter.

Height	50mm	Hardiness	Fully Hardy
Spread	100mm	Conditions	Sun / Rain



SEDUM SUMMER GLORY

Lovely dense carpets of dark green foliage topped with vivid coral red flowers make this Sedum a highlight of the Green Roof. Specially propagated each year in our Nursery for the Blankets, it bears fleshy rounded leaves that take on reddish tints in winter. The flat terminal clusters of funnel shaped flowers appear through summer attracting bumblebees and butterflies. Adding the bio diversity element to our Blankets.

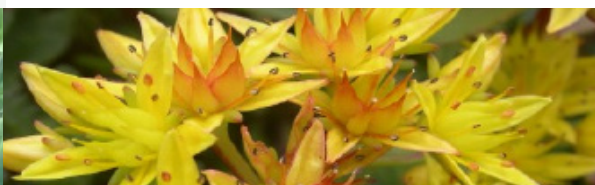
Height	200mm	Hardiness	Fully Hardy
Spread	300mm	Conditions	Sun / Rain



SEDUM REFLEXUM

The low-growing evergreen, spruce-like, succulent foliage stands out beautifully in our Sedum Blankets. Yellow flowers appear in July right through until mid October. To Get this variety to reach maturity in time for sale we propagate Reflexum in plug form in our nursery and insert

Height	250mm	Hardiness	Fully Hardy
Spread	200mm	Conditions	Sun / Rain



SEDUM WEIHENSTEPHANER GOLD

Weihenstephaner Gold is a low-growing sedum that spreads to form an attractive ground cover for green roofs. Flowers appear on reddish stems rising above the thick, triangular, succulent green leaves. The leaves turn purple in Autumn and into Winter, contrasting beautifully against the greens and blues. The clusters of star-shaped, yellow-tinted, bronzeorange flowers are very attractive to butterflies and bees. An excellent selection for sites requiring extra bio diversity.

Height	150mm	Hardiness	Fully Hardy
Spread	100mm	Conditions	Sun / Rain



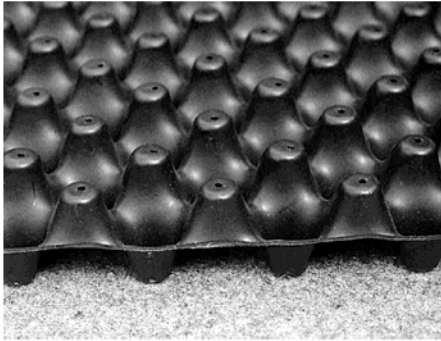
SEDUM VOODOO

A contrasting species with succulent leaves rising from a low growing mat. Leaves are rich deep red with a glossy appearance and held on succulent stems. This Sedum was also selected for use in our Blankets because it's flowers are rich red, long lasting and borne in early autumn. Helping us achieve 8 months of flowering over our Blankets

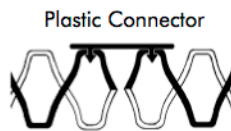
Height	100mm	Hardiness	Fully Hardy
Spread	300mm	Conditions	Sun / Rain

Product Data Sheet

EGR40C



Drainage and water storage element of recycled polyolefin for use on extensive and intensive green roofs with or without slope.



Technical Data

Drainage and water storage element of thermoformed recycled polyolefin.

Material: Polyolefin, mainly PE
Colour: dark grey
Height: ca. 40 mm
Weight: ca. 1.9 kg/m²

Diffusion opening: ca. 2 mm
Water storage capacity: ca. 5 l/m²
Filling volume: ca. 17 l/m²

Compressive strength at 10 % compression
without filling: ca. 170 kN/m²
with filling: ca. 250 kN/m²

In-plane water flow capacity (EN ISO 12958):
roof slope 1 %: ca. 1.5 l/(s·m)
roof slope 2 %: ca. 2.1 l/(s·m)
roof slope 3 %: ca. 2.6 l/(s·m)

Dimensions: ca. 1.00 m x 2.00 m

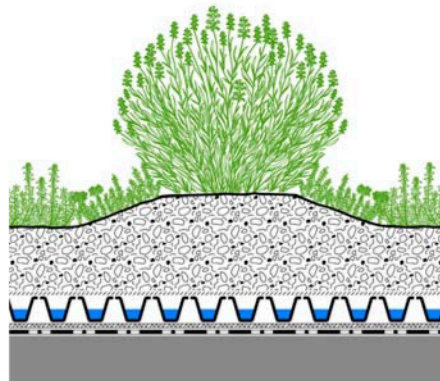
Accessories:
Plastic Connector
 (to be pressed into diffusion openings)

Features

- universal element for extensive and intensive green roof build-ups
- high drainage capacity
- also suitable for roofs without slope
- water storage even on sloped roof
- walkable
- biologically neutral
- quick and easy installation
- joint connector as accessory available

Application Example

"Semi-intensive Green Roof Type Heather with Lavender according to ETA-13/0668"



Specification Suggestion

Drainage and water storage element of recycled polyolefin, height ca. 40 mm, max. compressive strength (without filling) 170 kN/m², with water storage cells and openings for ventilation and evaporation as well as multidirectional drainage channel system on the underside, in-plane water

flow capacity tested according to EN ISO 12958, delivery and installation according to manufacturer's instructions.

