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GREEN ROOFS DIRECT

Extensive Sedum Roof Build Up Specification



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Consisting of: Protective Fleece, Drainage Layer, Growing Medium
and Pre Grown Sedum Blanket

Drainage Layer

Product Description

Drainage Layer is made of cross-linked, closed cell polyethylene (PE) foam flakes, which are connected together by thermal processing. The already applied/laminated filter fleece is made of polyester (PET) fibres.

Uses:

Drainage Layer is used as a drainage, protection, filter and root expansion layer for extensive green roof systems on flat roofs.

Characteristics / Advantages

- 4 in 1 product (drainage, protection, filter and root expansion layer)
- Light and easy to cut
- Suitable for low pitch roofs
- High porosity and very high water transmissibility
- Drainage Layer does not rot
- Compressive strength
- Recyclable

Tests Approvals / Standards

Quality management system EN ISO 9001/14001
Reaction to fire according to EN 13501-1, class E

Product Data:

Appearance Surface: structured

Colour Drainage layer: coloured Filter fleece: light grey Packaging,

Packing unit: 40 pieces per pallet (90 m²)

Storage Conditions Drainage Layer shall be stored at dry conditions.

Shelf-Life Drainage Layer does not expire during correct storage.

Drainage Layer:

Technical Data

Material Bases

Drainage layer:	Polyethylene foam (PE)
Filter fleece:	Polyester fibres (PET)

Length	2.25 m ($\pm 3\%$)
Width:	1.00 m ($\pm 3\%$)
Thickness:	25 mm (- 0 mm / + 3 mm)

Mass per unit area

EN 9864

Drainage layer:	2100 g/m ² (- 120 g / + 100 g)
Filter fleece:	145 g/m ² (- 3 g / + 5 g)

Static puncture

EN 12236

Drainage layer:	1800 N
Filter fleece:	1600 N

Water permeability normal to the plane (V H50)

EN 11058

0.11 m/s (± 0.01)

Application Conditions / Limits:

Temperature

The use of Drainage Layer 30 is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.

Growing Medium:

Install 50mm multi-layer extensive roof substrate composed of mineral bulk mixture with a proportion of mineral and organic matter.

Total pore volume > 60-70 Vol %

Max water capacity ≥ 35% Vol

Key data

Dry weight approx. ≤ .75 g/cm³

Water saturated ≤ 1.4g/cm³

Organic content ≥65 g/L

pH value 5.8-7.9

Water permeability ≥ 0.6 mm/min

Compression factor 1,2

Vegetation Layer:

Please see data sheet for information

Ecology, Health and Safety Information

The product does not fall within the EC-regulation of hazardous goods. As a result, a material safety data sheet following EC-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it. The product does not damage the environment when used as specified.

Sedum Blanket Datasheet:

Carrier	Predominately rottable Cocomat with geo textile weave
Substate	Locally produced mix containing at least 25% recycled green waste
Vegetation composition	Sedum Acre Aureum, Sedum Album Coral Carpet, Sedum Album mini, Sedum Album Athoum, Sedum Hispanicum, Sedum Summer Glory, Sedum Reflexum, Sedum Weihenstephaner Gold, Sedum Voodoo
Vegetation coverage	Vegetation coverage
Thickness	2.5cm -4.5cm
Water saturation weight	18-22 kg /m ²
Standard Size	1 m x 1.5 m
