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**GREEN ROOFS DIRECT**

# **Extensive Sedum Roof Build Up Specification**



# Extensive Sedum Roof Build Up Specification

**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 m<sup>2</sup>)

Storage Conditions Drainage Layer shall be stored at dry conditions.

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

# Drainage Layer:

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## Technical Data

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### Material Bases

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

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

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### Mass per unit area

EN 9864

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

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### Static puncture

EN 12236

Drainage layer:	1800 N
Filter fleece:	1600 N

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### Water permeability normal to the plane (V H50)

EN 11058

0.11 m/s ( $\pm 0.01$ )

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## Application Conditions / Limits:

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### 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.

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## Growing Medium:

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

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**Total pore volume** > 60-70 Vol %

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**Max water capacity** ≥ 35% Vol

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### Key data

Dry weight approx. ≤ .75 g/cm<sup>3</sup>

Water saturated ≤ 1.4g/cm<sup>3</sup>

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**Organic content** ≥65 g/L

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**pH value** 5.8-7.9

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**Water permeability** ≥ 0.6 mm/min

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**Compression factor** 1,2

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## Vegetation Layer:

Please see data sheet for information

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### 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.

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## Sedum Blanket Datasheet:

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<b>Carrier</b>	Predominately rottable Cocomat with geo textile weave
<b>Substate</b>	Locally produced mix containing at least 25% recycled green waste
<b>Vegetation composition</b>	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
<b>Vegetation coverage</b>	Vegetation coverage
<b>Thickness</b>	2.5cm -4.5cm
<b>Water saturation weight</b>	18-22 kg /m <sup>2</sup>
<b>Standard Size</b>	1 m x 1.5 m

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