

Data Sheet



Optigreen ETA-certified System Solution "Nature Roof"

Summary:

System Solution for extensive or simple intensive roof greening for flat roofs with a pitch of 0 - 5°. With substrate thicknesses of up to 130 mm it is used to establish drought-resistant Sedum vegetation and, given the case, herbs and grasses selected for dry regions. If substrate thicknesses of up to 210 mm are used you may grow natural lawns, perennial plants and thickets.

System components above waterproofing:

- Separation, Protection and Storage Fleece Type RMS 350
- Drainage Board Type FKD 40 W
- Filter Fleece Type 105
- Extensive Substrate Type E
- Sedum-Shoot Seeds and, given the case, Herbs and Lawn Seeds Type E. If the substrate is sufficiently deep, then also perennial plants and thickets.

(Technical data of each System Component may be obtained from the respective Data Sheets.)



Technical Data:

- Total Weight of the build-up: 100 - 200 kg/m² (extensive), 200 - 300 kg/m² (simple intensive)
- Total System Layer depth: 100 - 170 mm (extensive), 170 - 250 mm (simple intensive)
- Vegetation: Sedum, herbs, grasses (extensive), perennials and thickets (simple intensive)
- Discharge coefficient (peak value): C = 0.56 - 0.27 (depending on roof pitch and layer thickness)
- Water retention: approx.. 30 - 80 l/m²
- Complies with the requirements of hard roofs class Broof t1 according to EN 13501-5:2005+A1:2009

Areas of application:

Three-layer roof greening system for flat roofs with a pitch of 0 – 5° to implement extensive and simple intensive roof greening on buildings which have strong enough roof structures.

General requirements for installation:

- The roof structure must be able to support the weight of the roof greening.
- Resistance to roots shall be achieved either by suitable waterproofing or by the installation of an additional layer which possesses this feature.
- Between a bitumen-incompatible root protection and a bituminous insulation membrane, you should install a separation foil (for example a 0.2 mm PE foil)
- In order to deliver the necessary materials to the construction site, you must provide an access strong enough to

Handling:

Please take into account the Optigreen Assembly Instructions for Nature Roof when handling and installing this greening system. These instructions also contain valuable information for the planning and execution phases.

Storage:

All the System Components are sufficiently weather resistant so that they may be stored in the open. Yet take into account that fleeces should not be exposed to extreme sun for long periods of time without protection.

Disposal:

Drainage elements can be recycled. Protection and Filter fleeces can be disposed of at residual waste sites. Vegetation substrates can be transported to earth-disposal sites or used to fill-up excavations.

The preceding details are guideline values established under laboratory conditions. These values are subject to certain manufacturing tolerances and depend, among other things, on local conditions and execution being done according to the manufacturer's instructions. Information contained in this product data sheet represent Optigreen's technical knowledge at the time of publication. Optigreen reserves the right to change and update information in accordance with newly acquired knowledge and to modify specified properties and thus improve the product. Optigreen is not liable for printing mistakes.