



## **SOLUTION 1 (USING DRAINAGE BOARD): 0-5°**

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# CHARACTERISTICS

- Traditional multi-layered structure including drainage and filter fleece.
- Particularly affordable roof greening.
- Low maintenance requirement.
- Relatively low biodiversity.
- Generally suitable for inverted roofs, if applicable. Minimum load for wind up-lift protection should be calculated.

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## • Technical Data

Weight *	90-140 kg/m <sup>2</sup> or 0.9-1.4 KN/m <sup>2</sup>
Layer height	80 mm
Roof pitch	0 – 5° (0 – 9 %)
Vegetation form	sedum-herbs-grasses
Water retention	50 – 60 %
Discharge coefficient **C=	0.47 - 0.6
Water storage	ca. 25 l/m <sup>2</sup>
Discharge yield ***	141-180 l/s x ha
Ecological value	■ ■ □ □ □
Maintenance costs	■ □ □ □ □

\* Depending on the load capacity of the substructure, Optigreen "High Density (HD)" or "Low Density (LD)" substrates can be used. Weight specifications refer to saturated conditions; dry weight is approximately 60 - 70 % of the saturated weight.

\*\* Depends on slope and system solution. Determined at 0° according to FLL guidelines.

\*\*\* Determined according to FLL discharge coefficient measurements using a 15-minute reference rainfall  $r(15) = 300 \text{ l/s x ha}$ .

- European Technical Approval
- System Specifications RTF
- System Specifications PDF
- Plant List

- **CAD Drawings**

DWGPDF

## • Brief Description

### Optigreen Vegetation Mat



- Pre-cultivated sedum mat for the rapid establishment of vegetation in order to prevent wind erosion, with decomposable carrier.
- [Download Data Sheet](#)

### **OPTIGREEN EXTENSIVE SUBSTRATE TYPE E (60 MM) \***



- A substrate with high water storage capacity and good air porosity, tailored to extensive multi layer systems.
- [Download Data Sheet](#)

### **OPTIGREEN COMBI INSPECTION CHAMBER (NOT SHOWN IN THE DRAWING)**



- Simple control of roof drainage outlets.
- Extendable in 100 mm increments.
- Side and top drainage openings.
- [Download Data Sheet](#)

### **OPTIGREEN FILTER FLEECE TYPE 105**



- Prevents fine particles from forming sludge in the drainage layer; high water permeability.
- [Download Data Sheet](#)

### **OPTIGREEN DRAINAGE BOARD TYPE FKD 25 (25 MM)**

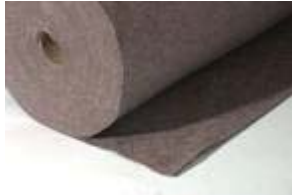


- Rapid discharge of surplus water.



- Prevents accumulation of water for non-pitched roofs and large drainage lengths.
- Light-weight build-up with high drainage capacity.
- [Download Data Sheet](#)

## **OPTIGREEN PROTECTION AND STORAGE FLEECE TYPE RMS 300**



- Protects the roof membrane against damage and stores water.
- For inverted roofs, use the Optigreen Trickle Protection Mat Type RS instead of the RMS fleece.
- [Download Data Sheet](#)

