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fürs GRÜN

- Green Roofs
- Artificial Turf
- Natural Ponds
- Garden Lighting
- Flat Roofing
- Road Construction

Our Green Roof System

WE 25 - The Pressure-Resistant Solution



- 1 Plants: Sedum, modest perennials
- 2 Growing medium: Hydrotop-E extensive substrate
- 3 Filter layer: Quality fleece PP 100 g/m², GRK 2
- 4 Drainage and water storage board WE 25
- 5 Protection layer: Standard PES/PP 300 g/m²

Discharge coefficient $C(\psi)$
according to FLL guidelines (2008)
on a roof with a pitch of 2 %

The system WE 25 is the ideal alternative to a simple sedum green roof. In this case low-maintenance perennials from our plant assortment type "Pink" like e. g. "Feathered Pinks" or "German Pinks" can be planted. Next to them paths or patios can be constructed. WE 25 - The pressure-resistant solution is on one hand a stable underground for flagging on green roofs and on the other hand a drainage- and water storage board for sedum and perennials.

Drainage and Water Storage Board Water Retention Element WE 25

The water retention element WE 25 reduces due to its discharge delay effect the top discharge coefficients of extreme rain and discharges the public sewerage system thus it redounds to flood prevention. The lowered diffusion holes allow for a long-term aeration without hindrance and improve the microbiological conditions for the plants.

Application

- Without infill as drainage and water storage board for extensive green roofs
- For green roofs with intention of the flood prevention by the effect of discharge delay
- With infill as drainage board under flagging
- With an appropriate overfill also applicable as drainage under vehicle accessible areas
- Also applicable for inverted roofs
- For extensive green roofs with a pitch of $\geq 0^\circ$



Data Sheet

Subject	Unit	WE 25
Raw Material	---	Recycling-Polystyrene (high impact)
Weight (Tolerance +/- 10 %)	gr/m ²	1360
Colour	---	black
Height	mm	25
Max. Crush Resistance unfilled (EN ISO 25619-2 : 2009-06)	kN/m ²	322
Crush Resistance with infill (EN ISO 25619-2 : 2009-06)	kN/m ²	478,7
Filling volume	l/m ²	13,5
Water storage capacity (unfilled)	l/m ²	11,80
Drainage capacity on 20 kPa load soft/rigid on i = 1 (DIN EN ISO 12958: 2010-08)	l/m•s	4,117
on 2 % incline	l/m•s	0,572
on 3 % incline	l/m•s	0,705
on 5 % incline	l/m•s	0,909
Fire protection classification (EN 13501-5)	---	B _{ROOF} (t2)
Microbiogological resistance (DIN EN 12225)	---	yes
*Discharge coefficient C (ψ) on a roof with a pitch of 2 % and with 10 cm substrate	according to FLL guidelines (2008)	0,29

CE
1213-CPR-6076

Dimensions

Subject	Unit	WE 25
Length	m	2,02
Width	m	1,10
m ² / Board	m ²	2,22
Weight / Board	kg	3,02

*all values are average results; technical changes remain reserving.

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