

# 6 fürs GRÜN

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

## Layer Composition



Height  
9 cm



Weight  
104 - 137 kg/m<sup>2</sup>\*



Water Retention  
30 - 45 l/m<sup>2</sup>\*

\* depending on substrate utilised



## Our Green Roof System

# WE 25/15 - The Pressure-Resistant Solution



- 1 Planting: Sedum, modest perennials
- 2 Growing medium: Extensive substrate Hydrotop-E, application height 6 cm
- 3 Filter layer: Quality fleece PP 100 g/m<sup>2</sup>, GRK 2
- 4 Drainage and water storage board: WE 25/15
- 5 Protection layer: Geotextile Standard PES/PP 300 g/m<sup>2</sup>

Our system WE 25/15 – The Pressure-Resistant Solution – is the ideal alternative to a simple sedum green roof. Modest perennials from one of our diverse plant assortments can be chosen instead. In addition paths can be designed or patios can be build. WE 25/15 – The Pressure-Resistant Solution – is a stable underground for flagging; likewise WE 25/15 functions as water storage for sedum and perennials.

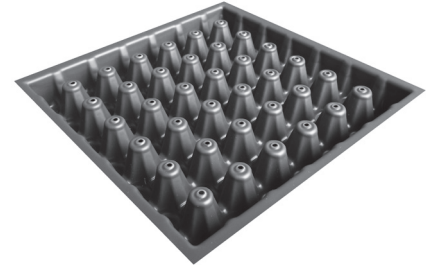
# Drainage and Water Storage Board Water Retention Element WE 25/15

The water retention element WE 25/15 reduces due to its discharge delay effect the top discharge coefficients of extreme rain. It discharges the public sewerage system thus it redounds to flood prevention.

The three-level drainage system with integrated branch drains cares for a high drainage capacity. The water storage and drainage board WE 25/15 is thus also suitable for vacuum sewer systems.

## Application

- Without infill as drainage and water storage board for extensive green roofs
- For green roofs with intention of flood prevention by the effect of discharge delay
- Also suitable for vacuum sewer systems
- 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	Tolerance	WE 25/15
Raw material	---	---	Recycling-Polystyrene (high impact)
Weight	gr/m <sup>2</sup>	± 100	1360
Colour	---	---	black
Height	mm	± 2	25
Crush resistance unfilled (EN ISO 25619)	kN/m <sup>2</sup>	± 40	398
Crush resistance with infill on 8 % compression (EN ISO 25619)	kN/m <sup>2</sup>	± 80	775
Maximum crush resistance (EN ISO 25619)	kN/m <sup>2</sup>	± 80	3741
Filling volume	l/m <sup>2</sup>	±	15
Water storage capacity (without infill)	l/m <sup>2</sup>	± 0.8	15
Drainage capacity (EN ISO 12958)			
on 1 % incline	l/m·s	- 0.05	0.64
on 2 % incline	l/m·s	- 0.05	0.94
Overlap	%	---	2
Storage	protected against UV radiation; has to be covered within 24 hours after installation		

1213-CPR-7716 CE

## Dimensions

Subject	Unit	Tolerance	WE 25/15
Length	m	± 0.01	1.995
Width	m	± 0.01	1.003
m <sup>2</sup> /board	m <sup>2</sup>	± 0.03	2.000
Weight/board	kg	± 0.2	2.72

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

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