

# 6

fürs  
GRÜN

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

## Our Green Roof System

# WE 40 - The Water-Storing Solution



- 1 Plants: Bushes, grass, herbs, perennials, sedum
- 2 Growing medium: Hydrotop-I intensive substrate
- 3 Filtering layer: Quality fleece PP 150 g/m<sup>2</sup> GRK 3
- 4 Drainage and water storage element: WE 40
- 5 Protection layer: Standard PES/PP 300 g/m<sup>2</sup>

With the system WE 40 you can build green roofs with a combination of perennials and bushes. With a water storage capacity of 19.59 litre of water per square meter it guarantees a considerable rain water retention and it secures in a high demand the provision of the plants. The high impact and pressure resistant raw material (HIPS) ensures the accessibility of the boards also under flagging, so that WE 40 can also be used as drainage board under walkable circulation areas. A real all-rounder!

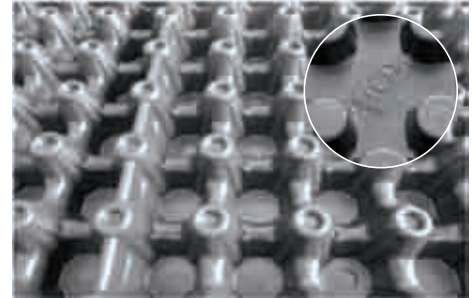
# Drainage and Water Storage Board Water Retention Element WE 40

The drainage and water storage board WE 40 is made of high impact recycling polystyrene. WE 40 has a filling-volume of about 22.8 l/m<sup>2</sup> and stores up to 19.59 l/m<sup>2</sup> of water. It is chemically neutral, rotproof and resistant to mould and bacteria. The microbiological resistance corresponds to DIN EN 12225.

The lowered diffusion holes allow for a long-term aeration without hindrance and improve the microbiological conditions for the plants.

## Application

- Drainage and water storage board for intensive green roofs
- 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 green roofs with a pitch of  $\geq 0^\circ$



## Data Sheet

Subject	Unit	WE 40
Raw Material	--	Recycling-Polystyrene (high impact)
Weight (Tolerance +/- 5 %)	g/m <sup>2</sup>	1960
Colour	--	black
Height	mm	40
Compression Strength without infill (EN ISO 25619-2 : 2009-06)	kN/m <sup>2</sup>	338
Compression Strength with infill on 10 % compressive strain (EN ISO 25619-2 : 2009-06)	kN/m <sup>2</sup>	588
Filling volume	l/m <sup>2</sup>	22,75
Water storage capacity (without substrate)	l/m <sup>2</sup>	19,59
Drainage capacity on 20 kPa load rigid/rigid (DIN EN ISO 12958: 2010-08)	l/m*s l/m*s l/m*s	7,30 0,70 1,01
Microbiological resistance (DIN EN 12225)	--	yes

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## Dimensions

Subject	Unit	WE 40
Length	m	2,04
Width	m	1,04
m <sup>2</sup> / Board	m <sup>2</sup>	2,12
Weight / Board	kg	4,16

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

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