

# 6 fürs GRÜN

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

## Layer Composition



Height  
16 cm



Weight  
238 - 275 kg/m<sup>2</sup>\*



Water Retention  
83 - 89 l/m<sup>2</sup>\*

\* depending on substrate utilised



## Our Green Roof System

# WE 40/23 - The Water-Storing Solution



- 1 Planting: Bushes, grass, herbs, perennials, sedum
- 2 Growing medium: Intensive substrate Hydrotop-I, application height 12 cm
- 3 Filter layer: Quality fleece PP 150 g/m<sup>2</sup>, GRK 3
- 4 Drainage and water storage board: WE 40/23
- 5 Protection layer: Geotextile Standard PES/PP 300 g/m<sup>2</sup>

With our WE 40/23 system - The Water-Storing Solution - you can realise intensive green roofs with a high variety of perennials and bushes. With a water storage capacity of 23.3 l/m<sup>2</sup> WE 40/23 provides a considerable rain water retention. It thus exceedingly guarantees the water supply of the plants.

As WE 40/23 is made of pressure-resistant HIPS it is also applicable as drainage under paths and patios. WE 40/23 – a real all-rounder!

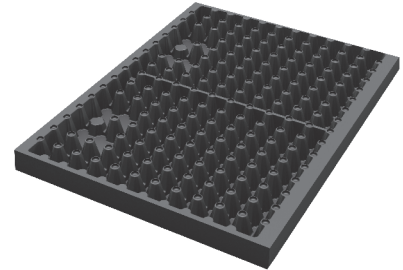
# Drainage and Water Storage Board Water Retention Element WE 40/23

The drainage and water storage board WE 40/23 is made of high impact recycling polystyrene. It stores up to 23.3 l/m<sup>2</sup> of water. It thus exceedingly guarantees the water supply for the plants of an intensive green roof. Due to the extreme crush resistance of 600 kN/m<sup>2</sup> green surfaces can easily be combined with patios and paths.

The three-level drainage system with integrated branch drains cares for a high drainage capacity. The water storage and drainage board WE 40/23 is thus also suitable for sewer systems.

## Application

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



## Data Sheet

Subject	Unit	Tolerance	WE 40/23
Raw material	---	---	Recycling-Polystyrene (high impact)
Weight	gr/m <sup>2</sup>	± 100	1920
Colour	---	---	black
Height	mm	± 4	40
Crush resistance unfilled (EN ISO 25619-2)	kN/m <sup>2</sup>	± 20%	328
Crush resistance with infill on 2 mm compression (EN ISO 25619-2)	kN/m <sup>2</sup>	± 10%	384
Crush resistance with infill on 10 % compression (EN ISO 25619-2)	kN/m <sup>2</sup>	± 10%	600
Filling volume	l/m <sup>2</sup>	± 0.8	23.3
Water storage capacity (without infill)	l/m <sup>2</sup>	± 0.8	23.3
Drainage capacity on 20 kPa load (EN ISO 12958)			
on 1 % incline	l/m · s	± 10%	1.33
on 2 % incline	l/m · s	± 10%	2.04
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 40/23
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	± 0.20	3.840

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

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