

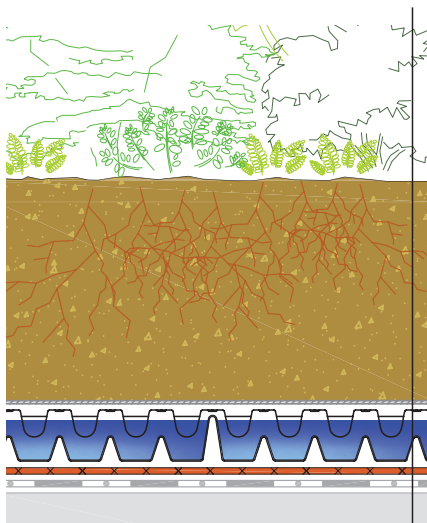
# DiaDrain-40H

Water-retention and flow-delay drainage board

310224

## KEY FEATURES

- High rainwater retention ⇒ nearly 19,59 l/m<sup>2</sup> of water storage capacity
- Prevention of water channel system overuse ⇒ waterflow speed decreased by stepped barriers
- Microbiological resistance test (EN 12225) ⇒ additional protection for the waterproofing layer against microbiological damage
- Recessed evaporation vents ⇒ unobstructed aeration
- Durable and high impact-resistant material (HIPS) ⇒ stability under pavements, water cooling is not needed during summer installations
- Snap the board for the required size ⇒ No cutter needed on the work site
- Negligible overlap loss ⇒ economical installation and cost savings
- Increased contact area ⇒ decreased surface pressure



### DIADEM® BUILD-UP

Vegetation (Intensive)

Growing media

VLF-150/200 filter layer

### DiaDrain-40H

VLU-300/VLS-500 mechanical protection layer

Root-resistant waterproofing membrane

Roof construction

## APPLICATION

Water-retention and flow-delay drainage board for semi-intensive and intensive green roofs and hard-surface pedestrian areas for flat roofs and zero-degree slope roof construction, made of recycled high-impact polystyrene (HIPS). Suitable for solving standing water problems on existing roofs.



Microbiological resistance  
**EN12225**  
25-year stability guaranteed



## SPECIFICATION

Water-retention and flow-delay drainage board with CE marking, made of recycled high-impact polystyrene, 40 mm high, stepped barrier form, with recessed evaporation vents and water channel system on the underside, compressive strength unfilled: 338 kN/m<sup>2</sup> according to test reports (average value measured by SKZ-Testing GmbH, Würzburg, Germany), compressive strength filled at 10% compressive strain: 588 kN/m<sup>2</sup>, the guaranteed minimum of the compressive strength: 210 kN/m<sup>2</sup>, water flow capacity on 2% roof slope 1,01 l/m×s certified according to EN ISO 12958, water storage capacity 19,59 l/m<sup>2</sup>, microbiological resistance tested (EN 12225), laid. Product: DIADEM® DiaDrain-40H  
Manufacturer's Certificate of Origin (MCO): APP Kft.  
Website: [www.diadem.com](http://www.diadem.com)

## TECHNICAL DATA

Board size (mm)	approx. 2040×1040×40 [ca. 2,12 m <sup>2</sup> /sheet]
Rainwater retention capacity (l/m <sup>2</sup> )	19,59
In-fill volume (l/m <sup>2</sup> )	22,75
Overlap loss	~5%
Surface weight (+/-5%, kg/m <sup>2</sup> )	1,96
Compressive strength (unfilled) (SKZ average value, kN/m <sup>2</sup> )	338
Compressive strength (filled) at 10% compressive strain (kN/m <sup>2</sup> )	588
Material	recycled high-impact polystyrene (HIPS)
Water flow capacity EN ISO 12958 (l/(m×s))	at 1%: 0,70 • at 2%: 1,01 • at 3%: 1,25 • at 5%: 1,63
Storage	horizontally, protect from UV radiation
Installation	adjacent to each other or overlapped, cover immediately after laying
Manufacture	Made in Germany



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Green Up the Roof!

