

DiaDrain-40H

Water-retention and flow-delay drainage board

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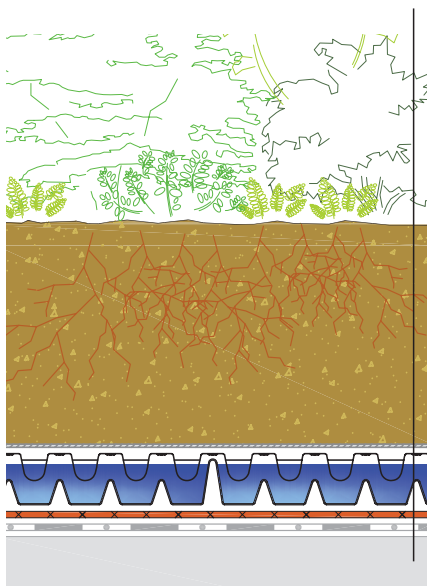
KEY FEATURES

- High rainwater retention ⇒ nearly 19,59 l/m² 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



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.



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

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 338 kN/m² (unfilled), 755 kN/m² (filled), water flow capacity on 2% roof slope 1,01 l/(m×s) certified according to EN ISO 12958, water storage capacity 19,59 l/m², microbiological resistance tested (EN 12225), laid.

Product: DIADEM® DiaDrain-40H

Manufacturer's Certificate of Origin (MCO): APP Kft.

Website: www.diadem.com

TECHNICAL DATA

| | |
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| Board size (mm) | approx. 2040×1040×40 [ca. 2,12 m ² /sheet] |
| Rainwater retention capacity (l/m ²) | 19,59 |
| In-fill volume (l/m ²) | 22,75 |
| Overlap loss | ~5% |
| Surface weight (kg/m ²) | 1,96 |
| Compressive strength (unfilled) (kN/m ²) | 338 |
| Compressive strength (filled) (kN/m ²) | 755 |
| 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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EN13252



100% recyclable

Microbiological resistance
EN12225

25-year stability guaranteed



Green Up the Roof!

