

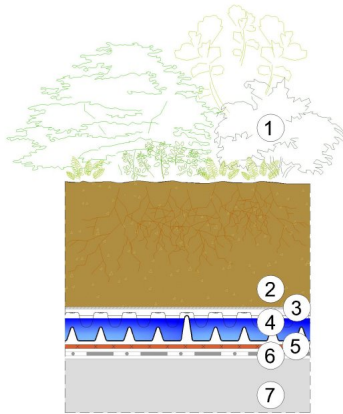
DiaDrain-40H

1-5/8" Height, High capacity, Flow-delay Retention Board

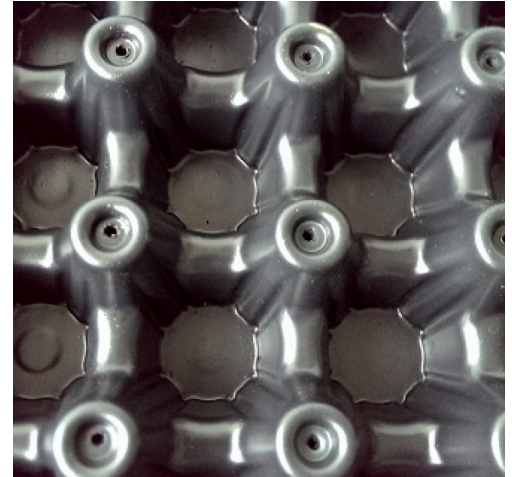
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KEY FEATURES

- High storm water retention and storage capacity, 0.501 gal/sqf
- "Stepped barrier" design slows run-off velocity, reducing pressure on public infrastructure.
- Recessed evaporation vents improve ventilation under the system.
- Negligible material waste reduces costs and enhances profitability.
- Increased contact area reduces overall surface pressure.



(1)Vegetation, (2)Growing media, (3)VLF 150/200 filter layer, (4)DiaDrain-40H, (5)VLU 300 /VLS 500 mechanical protection layer, (6)Root resistant waterproofing membrane, (7)Roof construction



APPLICATION

DiaDrain-40H is designed for high water retention and drainage capacity of low slope roof surfaces, including vegetated areas and hard-surface pedestrian areas of semi-intensive and intensive green roofs. The "stepped barrier" design of DD-40H causes the retention cups to fill with water in a similar fashion to filling an ice cube tray, enabling their flow-delay and retention functions. DD-40H boards are laid overlapping one row of cups with the adjacent board, starting at the bottom of the roof slope and moving upward.

SPECIFICATION

DD-40H, high capacity 1-5/8 inch height retention board composed of recycled high-impact polystyrene. Stepped barrier design with deep-drawn recessed evaporation vents and water channel system on the underside. Compression strength: 6,922 lbf/sqft (unfilled), filled at 10%: 12,043 lbs/sqf, the guaranteed minimum of the compression strength: 4,300 lbs/sqf according test certificate issued by SKZ-Testing GmbH, Würzburg, Germany, Water-flow capacity 0.15 gal/(secxft)@ i=0.02, (according to EN ISO 12958), Water-retention capacity 0.501 gal/sqf, Microbiological resistance tested (EN 12225), Fire resistance classification "Broof(t2)"(EN 13501-5). Weight per unit Area: 57.80 oz/sqf; Board size 6 8-5/16" x 3 4-7/8" x 1-5/8" (LxWxH); Packaging: 4,144 Sqft/Pallet



TECHNICAL DATA

Board Area: (sqft)	22.835
Water retention capacity: (gal/sqft)	0.501
Board Height: (inch)	1 5/8"
Weight per unit Area: (oz/syd)	57.80
Board Width: (inch)	3 4-7/8"
Board Length: (inch)	6 8-5/16"
Water flow rate (i=0.02): (gal/(ft x sec))	0.15
Material Requirement: (sqft/sqft)	1.01
Flammable classification:	Broof(t2)
Installation standard: (hr/sqft)	0.015
Compression Strength (unfilled): (lbs/sqft)	6,922

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Green Up the Roof!