

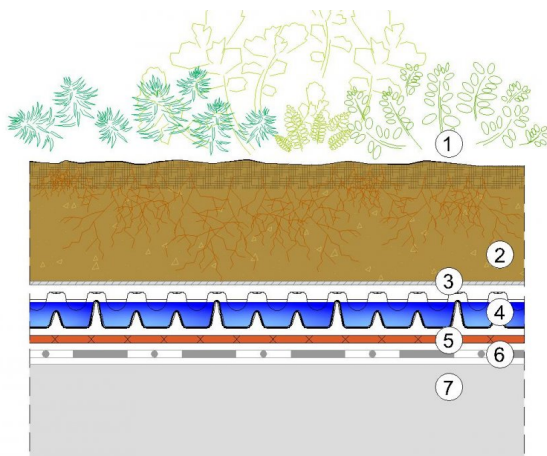
# MDrain-30H

## Stormwater Detention Board

310203U2

### KEY FEATURES

- High storm water retention and storage capacity, 0.466 gal/sqf
- "Stepped barrier" design slows run-off velocity, reducing pressure on storm water infrastructure.
- Recessed evaporation vents improve ventilation under the system.
- Negligible waste of materials reduces costs.
- Increased contact area lowers overall surface pressure.



(1)Vegetation, (2)Growing media, (3)VLF 150/200 filter layer, (4)MDrain-30H, (5)VLU 300/500 mechanical protection layer, (6)Root resistant waterproofing membrane, (7)Roof construction



### APPLICATION

MDrain-30H is designed for continuous drainage of flat- and low slope roofs, including vegetated areas and hard-surface pedestrian areas of extensive and semi-intensive vegetative roofs especially for climates with seasonally high yield precipitation. The serpentine formed channels detain the storm surge on extensive vegetated roofs, while assures the maximum detention capacity by the next rain event.

### SPECIFICATION

MDrain-30H, is 1-9/16 inch height flow-delay retention board composed of recycled high-impact polystyrene. Stepped barrier design with deep-drawn recessed evaporation vents and water channel system on the underside. Compressive strength: 2400 lbf/sqft (unfilled), drainage capacity at 2% roof slope: 0.15 gal/ft/sec; certified according to EN ISO 12958, water storage capacity: 0.466 gal/sqf, microbiological resistance tested (EN 12225), fire resistance classification "Broof(t2)"(EN 13501-5). Weight per unit Area: 5.6 oz/sqf; Board size 6 3-1/2" x 3 3-3/8" x 1" (LxWxH)



### TECHNICAL DATA

Discharge Capacity: (Cs)	0.1
Board Height: (inch)	1 1/8
Board Width: (inch)	3 3-3/8
Board Length: (inch)	6 3-1/2
Board Area: (sqft)	20.66
In-fill Volume: (gal/sqft)	0.345
Water retention capacity (temporary): (gal/sqft)	0.466
Material:	recycled high-density polyethylene (HDPE)
Compression Strength (unfilled): (lbs/sqft)	2,400
Weight per unit Area: (oz/syd)	50.39
Water flow rate (i=0.02): (in^3/(ft x sec))	0.424

Reviewed: 2020-05-18 15:25:02



DIADEM USA, Inc.  
8795 SW Tualatin Sherwood Rd #1005, Tualatin, OR 97062  
info@diademusa.com • www.diademusa.com



Green Up the Roof!