

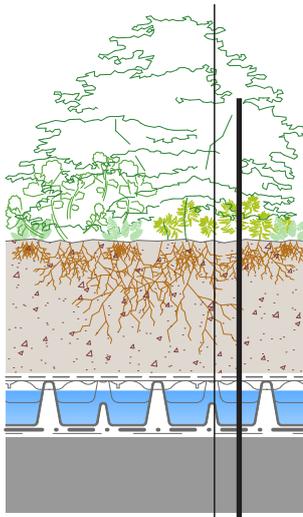
DiaDrain-60H



Water-retention and drainage board
310233

ADVANTAGES

- High rain- and irrigation-water retention \Rightarrow approx. 30,5 l / m² water storage capacity
- Increased contact surface \Rightarrow heightened protection of the waterproofing through the favorable weight distribution
- Long-term ventilation of the root area \Rightarrow increased diffusion openings
- Durable and high compressive strength material (HIPS) \Rightarrow no water cooling needed during summer installations
- Preventing the sinking of the filter layer \Rightarrow dedicated support cones
- Suitable for flooded blue roof \Rightarrow Flooding height with approx. 50 mm; with the combination of DiaDrain-60H-UP as a DiaDrain-120 WM watermanagement system up to 100 mm water level



DIADEM® BUILD-UP

- intensive vegetation
- intensive substrate
- VLF-200 separation and filter geotextile
- DiaDrain-60H drainage board
- VLS-500 protection geotextile with moisture retention
- root-resistant waterproofing membrane
- additional layers



EN 13252



100% recyclable

Microbiological resistance
EN 12225

APPLICATION

Rainwater-retention and flow-delay drainage board for semi-intensive or intensive roof gardens, for green roofs with flooded irrigation system and for paved roofs with sporadic traffic, eg. car parks.



SPECIFICATION

Rainwater-retention and flow-delay drainage board with ETA and CE marking, made of recycled high-impact polystyrene (HIPS), 60 mm high, for semi-intensive or intensive roof gardens, and for green roofs with flooded irrigation system up to a water level of approx. 50 mm (even up to approx. 100 mm when used in the DiaDrain-120 WM System), and for paved roofs with sporadic traffic, eg. car parks, when filled and laid with bedding layer above the filter fleece. With overlapping strip around the board, dam grid structure.

Product: DIADEM® DiaDrain-60H
Producer's certificate: A.P.P. Kft.
Website: www.diadem.com

TECHNICAL DATA

Board size (mm):	1940 x 940 x 60
Water storage capacity (l / m ²):	30.45
Fire classification:	Class E regarding DIN EN 13501-1
Fill-up volume (l / m ²):	approx. 40
Weight (kg / m ²):	2.2
Compressive strength unfilled (kN / m):	122
Material:	recycled high-impact polystyrene (HIPS)
Water flow capacity EN ISO 12958 (l / m ² s):	at 2%: 2.02 • at 5%: 3.32 • at 10%: 4.78
Storage:	horizontally, for long-term storage protect from UV radiation
Installation:	collided, covered immediately after laying



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APP Dachgarten GmbH

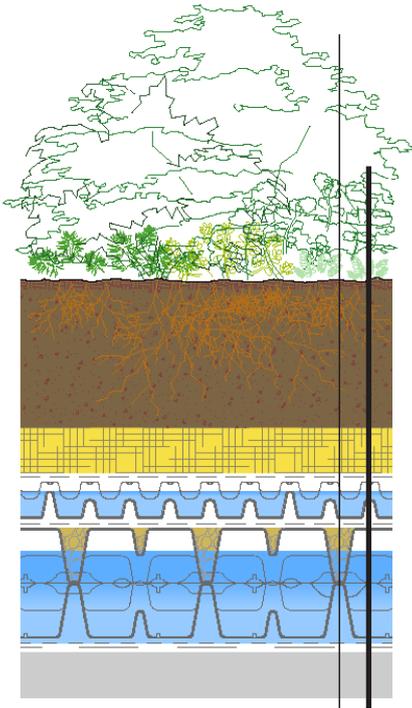
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DIADEM® APPLICATION EXAMPLE - FLOODED ROOF



- intensive vegetation
- intensive substrate
- DiaWool I50 mineral wool
- VLF-150 separation and filter geotextile
- DiaDrain-40H drainage board
- VLF-200 separation and filter geotextile
- DiaDrain-120 WM (DiaDrain-60H + DiaDrain-60H-UP) drainage board
- VLS-500 protection geotextile with moisture retention
- root-resistant waterproofing membrane
- additional layers

TEST REPORTS

Test Report No. 1.1/10560/0717.02-2017e page 2

1. Test process

1.1 Test set-up
From the dimpled sheet to test (DiaDrain-60H) three test specimen (approx. 300 x 300 mm, 4 chambers) were cut and stored for more than 24 h at normal climate (23 °C / 50 % rel. humidity).

1.2 Test process
The test specimen were weighted in dry condition with a laboratory scale (Sartorius Quinlix 6102-1CEU) an accuracy of 0,1 g. Afterwards the specimen were filled with deionized water. It was waited for a certain time, as indicator was chosen the first overflow of water. Now the specimen were weighted with water. This procedure was repeated at all 3 test specimens.

2. Result
Test and calculation parameters:
Temperature: 20 °C
Density of water (at 20°C): 998 g/l
Area of test specimen: 0,09 m²

Material: KRAITEC top drain plus	Dry weight [g]	Wet weight [g]	Mass of water [g]	water volume [l]
Specimen 1	255,3	3007,4	2752,1	2,75
Specimen 2	245,0	2936,2	2691,2	2,69
Specimen 3	257,1	3046,0	2788,9	2,78
Mean value	252,5	2996,5	2744,1	2,74

Table 1: Results of the water retention capability test

Water storage capacity
30,45 l/m²

W. d. Pa...
I.V. Dipl.-Ing. (FH) Christoph Staubermann
(Head of test laboratory)

Test Report No. 1.1 / 10560 / 1157.0.1-2017e

Summary of results

Date / Ref.: 15 February 2018 / nk
Order by: APP KR, Fehervari ut 75, 9028 Gyor, Hungary
Material: Recycling - Polystyrol-drainmat (black) DiaDrain - 60 H

Test	Standard	Unit	Mean x	Standard-deviation s	Coef. of variation v in %
Determination of short-term Compressive strength at 1. Peak	DIN EN ISO 28619-2 12.2015	kPa	1318	182	14,6
Compressive strain at 1. Peak		%	21,6	2,0	13,7
Compressive strain at 1 MPa		%	18,3	2,5	13,6

Remark: Test on filled samples (Split 0-4, delivered by customer). Test...

Fire classification
„E”
regarding EN 13501-1

oeti
Report: VN749-136006.2
Classification Report

5.2 - Classification
Due to the results of the tests carried out, the building product „DiaDrain-60H“ can be classified as following.

Classification
E

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U n r Credit Bank Austria AG | IBAN AT941200023430378800 | BIC BKALAT3333 | EORI ATE031000015903
Es gelten ausschließlich unsere Allgemeinen Geschäftsbedingungen | Only our general terms and conditions apply
Member of TESTEX Group



PRODUCT INFORMATION