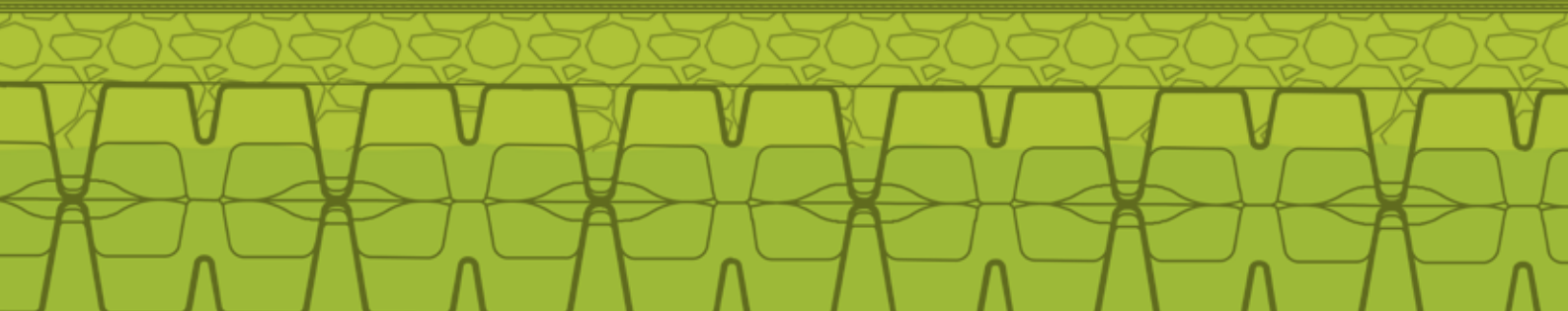
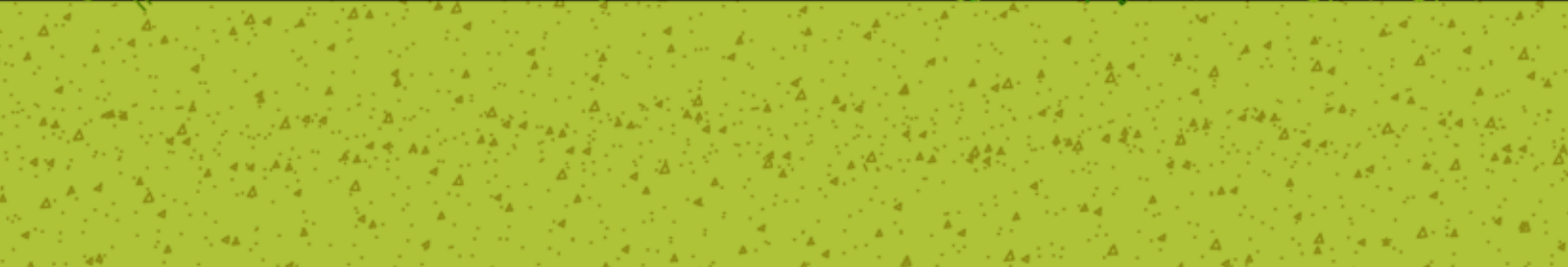


DIADEM[®]

WATER MANAGEMENT



DIADEM® DiaWool Blue

Due to the constantly increasing size of the built environment, professionals must face a new task to be solved: by draining the amount of precipitation that falls simultaneously during intense rainfall.

The reason is that this amount is an enormous additional burden on existing sewerage systems.

The DIADEM® DiaWool Blue system offers a new opportunity for the treatment of rainwater in addition to the DIADEM® Bluerooft.

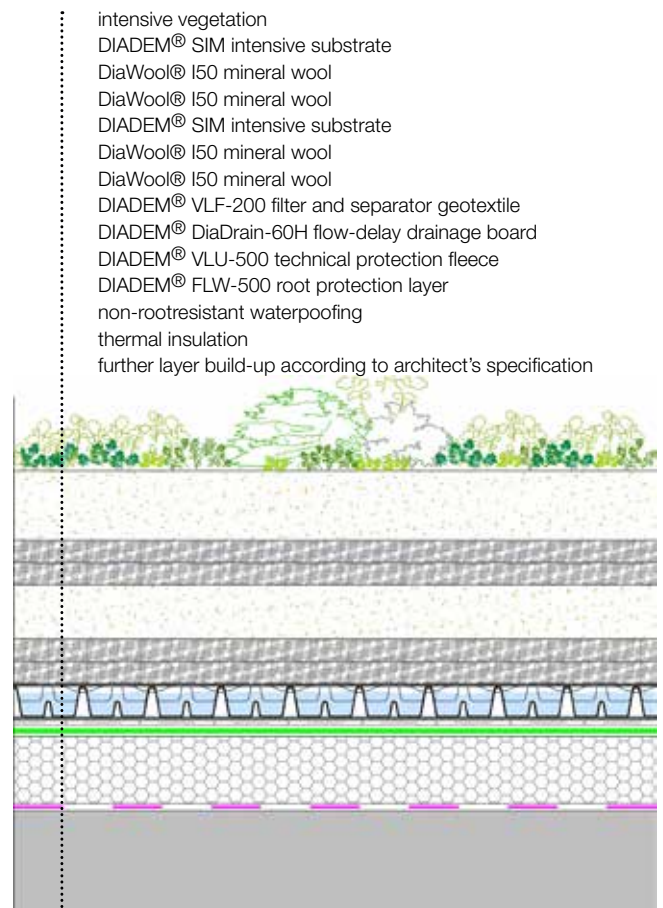
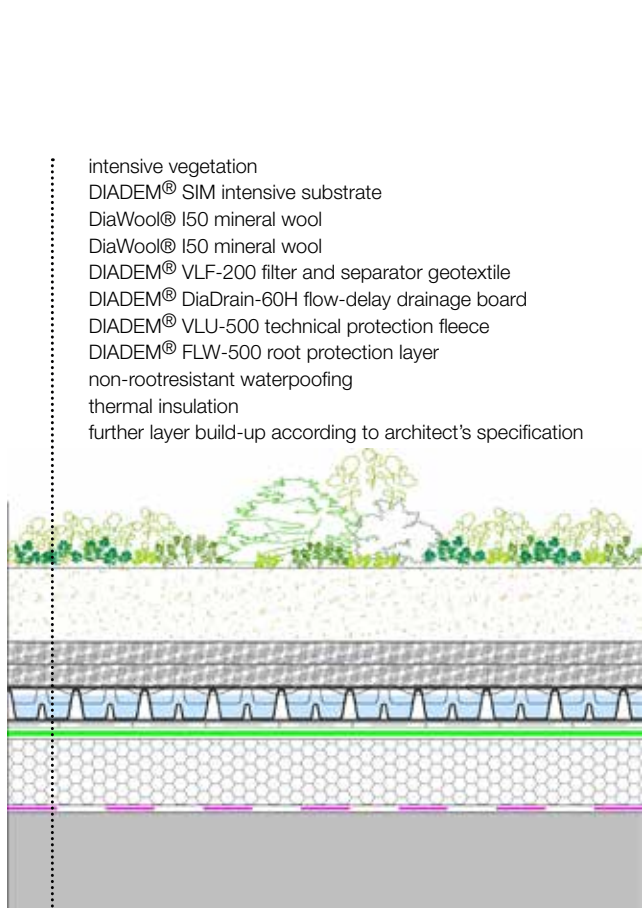
Instead of introducing rainwater directly from the roof surface into the sewerage system, the main element of the system initially collects rainwater and then releases it gradually over a definable period of time. Calculations performed by DIADEM® engineers can determine the maximum water retention capacity of the roof and the maximum load to best suit the requirements of the sewerage network of the given city.

The main component of the DIADEM® DiaWool Blue system is the CE marked DiaWool, a lightweight, hydrophilic mineral wool made of volcanic rock. Due to its hydrophilic properties and physical structure, it can absorb and retain large amounts of water. This feature helps the water to drain out of the mineral slowly.

The system can be used as the partial substrate substitution of green roof systems.

PARAMETERS

Material:	Hydrophilic mineral wool
Size:	1000mm x 600mm (LxW)
Thickness:	30mm 50mm 100mm
Heat resistance:	approx. 200° [A1 fire resistance class; EN13501-1+A1]
Maximum water capacity:	92.7%



DIADEM® 120 WM

The main component of the DIADEM® Bluerooft system is the DIADEM® 120 WM system, which consists of two 60 mm high drainage boards inverted into each other in the appropriate order. Horizontal displacement is prevented by the specially designed construction of the drainage boards.

Store these two components protected from UV radiation before installation. The water holding capacity is more controllable if the DHA-110-D roof outlet product is integrated into the system.

COMPONENTS

- DiaDrain60H (Top element, can be used independently for intensive green roofs.)
- DiaDrain60H-UP (Lower element, can be used independently.)

CE-marked 120mm high drainage and drainage deceleration plate made of high impact recycled polystyrene (HIPS) for DIADEM® Bluerooft systems, where there is a requirement for vapor-technically perfect ventilation. For the drainage of green roofs without inclination and roof surfaces with pedestrian traffic, filled with a load-bearing layer (crushed stone, drain concrete, etc.), with drainage delay dam structure.

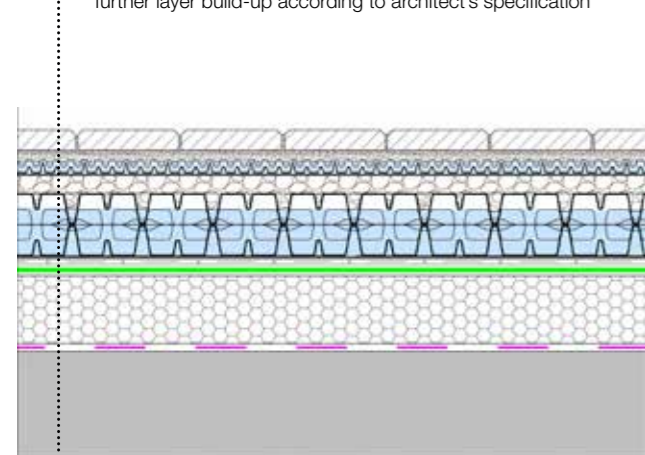
Compressive strength: 9,8 kN/m² (average);
classified in fire protection class "E" according to EN 13501-1.

ADVANTAGES

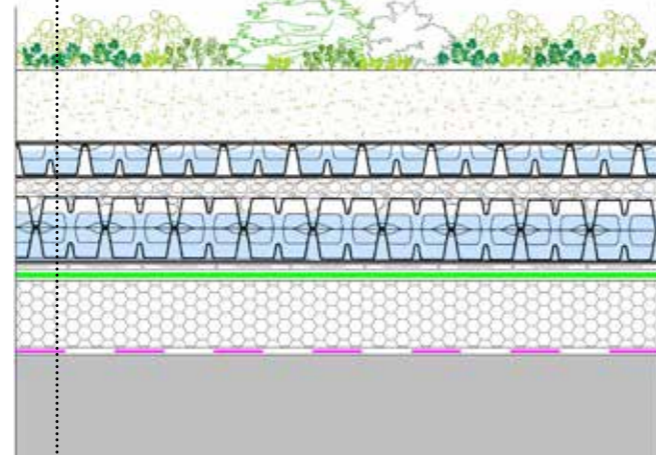
- ✓ It is made of durable and high compressive strength material (HIPS).
- ✓ Easy and quick installation.
- ✓ Fire protection class "E" can be used as a construction material without any restrictions in accordance with the European standard EN 13501-1 (28/2011. (IX. 6.) Ministry of Interior Decree OTSZ 294. (Paragraph (4)).

LAYER BUILD-UP

concrete pavement
crushed stone min. 3 cm
DIADEM® DiaDrain-25H-DP flow-delay drainage board
DIADEM® VLF-150 filter and separator geotextile
DIADEM® 120 WM system filled with chipped stones
(DiaDrain-60H flow-delay drainage board
DiaDrain-60H-UP drainage board)
DIADEM® VLU-500 technical protection fleece
DIADEM® FLW-500 root protection layer
non-rootresistant waterproofing
thermal insulation
further layer build-up according to architect's specification



intensive vegetation
DIADEM® SIM intensive substrate
DIADEM® VLF-200 filter and separator geotextile
DIADEM® DiaDrain-60H flow-delay drainage board
DIADEM® VLF-150 filter and separator geotextile
DIADEM® 120 WM system filled with chipped stones
(DiaDrain-60H flow-delay drainage board
DiaDrain-60H-UP drainage board)
DIADEM® VLU-500 technical protection fleece
DIADEM® FLW-500 root protection layer
non-rootresistant waterproofing
thermal insulation
further layer build-up according to architect's specification



DIADEM® Aquabox-120

The main component of the DIADEM® Bluerooft system is the DIADEM® Aquabox-120, which consists of two recycled plastic blocks of 40mm and 80mm height stacked in the appropriate order. The horizontal and vertical interconnection of the elements is made possible by their adequately designed structure.

Thanks to the UV resistance of these two components, special storage before installation is not necessary.

ADVANTAGES

- ✓ It is made of recycled polypropylene.
- ✓ Filter layer subsidence is prevented by uniquely designed support grids.
- ✓ Fire protection class "E" can be used as a construction material without any restrictions in accordance with the European standard EN 13501-1 (28/2011. (IX. 6.) Ministry of Interior Decree OTSZ 294. (Paragraph (4)).

PARAMETERS

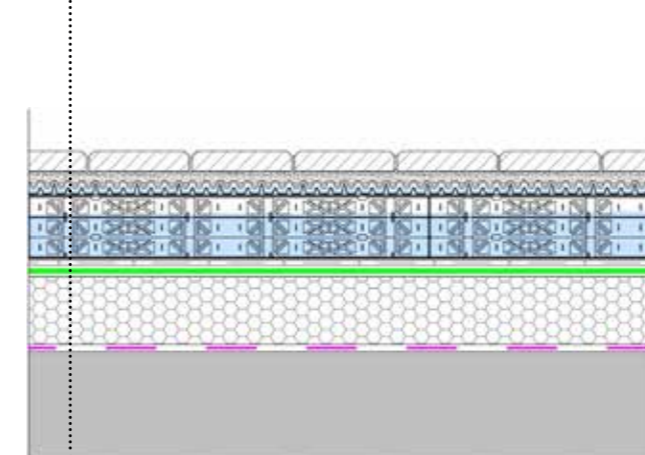
Dimensions:	800mm x 400mm x 120mm (L x W x H)
Weight:	3.6kg/pc
Materials:	Recycled Polypropylene
Colour:	Black
Chemical resistance:	Very good
Load capacity:	1000 kN/m ²
Tools required:	Not required

120 mm high drainage block system with CE marking made of recycled polypropylene, for DIADEM® Bluerooft systems, where there is a requirement for vapor-technically perfect ventilation. For the drainage of green roofs without gradient and roof surfaces loaded with pedestrian and vehicle traffic, with drainage delay dam structure.

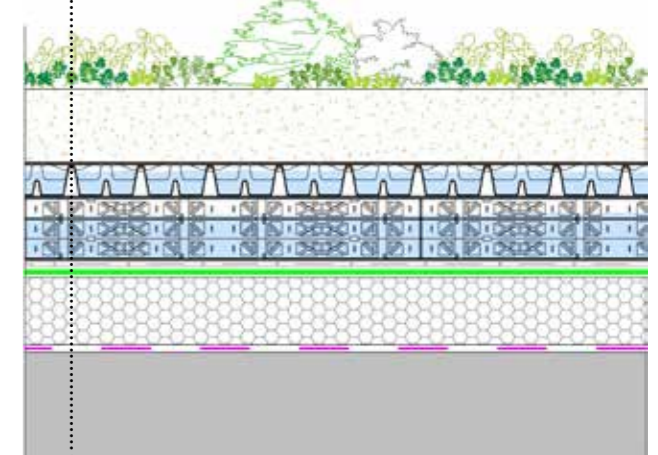
Compressive strength: 1000 kN/m² (average);
classified in fire protection class "E" according to EN 13501-1.

LAYER BUILD-UP

concrete pavement
crushed stone min. 3 cm
DIADEM® DiaDrain-25H-DP flow-delay drainage board
DIADEM® VLF-150 filter and separator geotextile
DIADEM® Aquabox-120
DIADEM® VLU-500 technical protection fleece
DIADEM® FLW-500 root protection layer
non-rootresistant waterproofing
thermal insulation
further layer build-up according to architect's specification



intensive vegetation
DIADEM® SIM intensive substrate
DIADEM® VLF-200 filter and separator geotextile
DIADEM® DiaDrain-60H flow-delay drainage board
DIADEM® VLF-150 filter and separator geotextile
DIADEM® Aquabox-120
DIADEM® VLU-500 technical protection fleece
DIADEM® FLW-500 root protection layer
non-rootresistant waterproofing
thermal insulation
further layer build-up according to architect's specification



Some of **OUR PROJECTS**



Project name: Hotel Seeleiten
Location: Kaltern, Italy



Project name: Four Seasons, Astir Palace
Location: Athens, Greece



Project name: Leier City Center
Location: Győr, Hungary



Project name: Urban Farm
Location: Østerbro, Copenhagen, Denmark



Project name: Graphisoft Park
Location: Budapest, Hungary



Project name: KÉSZ Office Building
Location: Budapest, Hungary



Project name: Amt für Raumentwicklung
Location: Bolzano, Italy



Project name: Alles ist Möglich



Project name: Ifjúság Park
Location: Győr, Hungary



Project name: Seattle Children's Hospital Campus
Location: Seattle, WA / USA



Project name: Panum Institute
Location: Copenhagen



Project name: Roof Garden
Location: Budapest, Hungary



Project name: Green Roof Apartments
Location: Warsaw, Poland



Project name: Torre Pelli
Location: Sevilla, Spain



Project name: Public Electrical Buses Company
Location: Athens, Greece

Our references



Kontakt

DIADEM CH AG

Rauracherweg 1.
CH-4710 Balsthal

Email: info@diadem.com
Mobile: +41 79 328 37 74
www.diadem.ch

APP DACHGARTEN GMBH

Jurastrasse 21
D-85049 Ingolstadt

Email: info@diadem.com
Mobile: +49 841 370 9496
www.grundach.com

A.P.P. Kereskedő és Szolgáltató Kft.

H-9028 Győr
Fehérvári út 75.

Email: info@diadem.com
Phone: +36 96 512 910
www.diadem.com

A green cover is always the best.