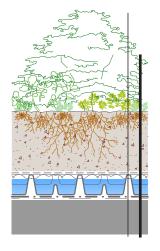
DiaDrain-60H 310233

Water-retention and drainage board

ADVANTAGES

- High rain- and irrigation-water retention ⇒ approx. 30,5 l / m² water storage capacity
- Increased contact surface ⇒ heightened protection of the waterproofing through the favorable weight distribution
- Long-term ventillation of the root area ⇒ increased diffusion openings
- Durable and high compressive strength material (HIPS) ⇒ no water cooling needed during summer installations
- Preventing the sinking of the filter layer ⇒ dedicated support cones
- Suitable for flooded blue roof ⇒ 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

- Vegetation
- Growing media
- VLF-200 filter layer
- DiaDrain-60H water-retention and drainage board
- VLS-500 water retention and mechanical protection
- Root resistant waterproofing membraine
- Roof construction





APPLICATION

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





Microbiological resistance EN 12225







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 intesive 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 sporadical traffic, eg. car parks, when filled and laid with bedding layer above the filter fleece. With overlapping strip around the board, dam grid structure and large water storage cells for an outstanding water retention of 30.45 l/m², with perforations on the upside, and water channel system on the underside for water drainage and vapour diffusion, especially for inverted roofs. Can be used for diffusion- and capillary irrigation. Compressive strength: $122 \, \text{kN} \, / \, \text{m}^2$ (average); Water flow capacity on 2% roof slope $2.06 \, \text{l} \, / \, (\text{m} \times \text{s})$ certified according to EN ISO 12958.

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

TECHNICAL DATA

Dimensions (mm): 1940 x 940 x 60 (nominal); 1980 x 940 x 60 (gross)

Surface (m²): 1.82 Water storage capacity (I/m2): 30.45

Fill-up volume (l/m²): approx. 40

Weight (+/-5%, kg/m²): 2.2

Compressive strength (unfilled, average, kN/m²):

recycled high-impact polystyrene (HIPS)

Water flow capacity DIN EN ISO 12958 (I/(mxs)): at 2%: 2.06 • at 5%: 3.34 • at 10%: 4.81

Fire classification: Class E regarding DIN EN 13501-1

Installation: adjacent to each other



Storage:

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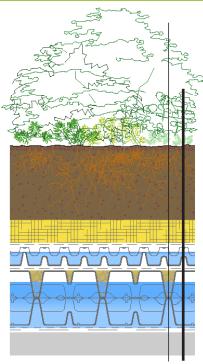
Green Up the Roof!

horizontally, for long-term storage protect from UV radiation

DiaDrain-60H

Water-retention and drainage board

DIADEM® APPLICATION EXAMPLE - FLOODED ROOF



- Vegetation
- Growing media
- DiaWool I50 mineral wool
- VLF-150 filter layer
- DiaDrain-40H drainage board (filled)
- VLF-200 filter layer
- DiaDrain-120 WM (DiaDrain-60H + DiaDrain-60H-UP) drainage board (filled)
- VLS-500 water retention and mechanical protection layer
- Root resistant waterproofing membraine
- Roof construction

