

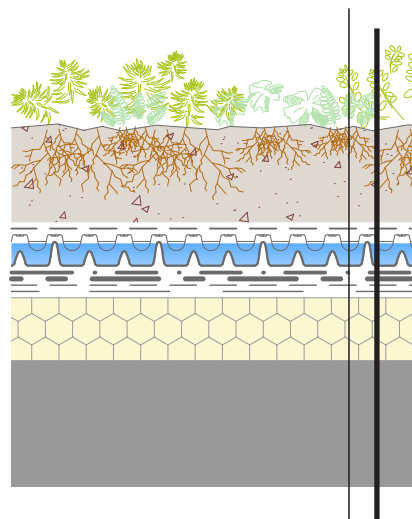
Root protection layer 340107 / 340108 / 340109

ADVANTAGES

- Separates the root zone from the insulation layers
- Prevents excessive root spread, supports uniform plant coverage
- Protects the roof insulation layers from puncture, thereby preventing structural damage



FLW-400
FLW-500



DIADEM® BUILD-UP (FLW-400)

- extensiv vegetation
- extensiv substrate
- VLF-110/150 separation and filter geotextile
- DiaDrain-25H drainage layer
- VLU-300 mechanical protection geotextile
- FLW-400 root-resistant layer
- VLF-110 separation and filter geotextile*
- non root-resistant waterproofing membrane
- additional layers

*We recommend placing a separation geotextile between the root-resistant membrane and the non-root-resistant waterproofing layer.

FLW-1000



APPLICATION

The root systems of plants on intensive green roofs can damage the building structure. Additionally, various wind-carried plants may appear on extensive green roofs, including those with aggressive roots or rhizomes, which can threaten traditional waterproofing. Therefore, appropriate root protection must be ensured for every vegetated roof surface.

SPECIFICATION

FLW-400

Root resistant layer made of 0.4 mm thick elastic polyethylene regenerate, root resistance tested according to standard CEN/TS 14416:2014. Applicable as a root resistant layer on extensive green roofs when laid down with a 1.0 m overlapping according to FLL guidelines. Dimensions: 4 × 25 m (W × L); roll width: 1 m (folded four times); wrapping: 100 m²/roll; colour: black.

FLW-500

Root resistant layer made of 0.5 mm thick elastic polyethylene regenerate, root resistance tested according to standard CEN/TS 14416:2014. Applicable as a root resistant layer on extensive or semi-intensive green roofs with shallow-rooted vegetation, when laid down with a 1.5 m overlapping according to FLL guidelines. Dimensions: 6 × 25 m (W × L); roll width: ca. 1.5 m (folded four times); wrapping: 150 m²/roll; colour: black.

FLW-1000

Root resistant layer made of 1 mm thick plasticized PVC. Suitable for semi-intensive or intensive green roofs planted with strong-rooted vegetation. On green roofs, the seams can be joined with a minimum 5 cm overlap using a hot-air welding tool or tetrahydrofuran solvent welding. NOT resistant to bitumen or UV exposure! Dimensions: 1.5 × 25 m (W × L); colour: black; packaging: 52,4 m²/roll.

Product: DIADEM® FLW-400 / DIADEM® FLW-500 / DIADEM® FLW-1000
 Producer's certificate: A.P.P. Kft.
 Website: www.diadem.com



100% recyclable

TECHNICAL DATA

	FLW-400	FLW-500	FLW-1000
Thickness (mm):	0.4	0.5	1
Tensile strength (DIN EN12310-2) (N/mm ²):	>= 14; >= 12	>= 14; >= 12	-
Tensile strength (DIN EN12311-2) (N/50mm):	-	-	760/490
Material:	LDPE	LDPE	PVC
Root resistance (CEN/TS 14416):	root resistance		



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