

Hydrophilic mineral wool, partial substrate replacement



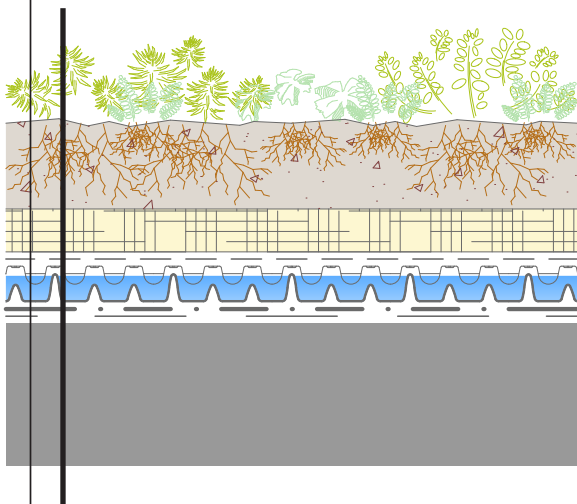
ADVANTAGES

- Economical transportation and material handling
- Fast, simple, cost-effective implementation
- Multiple water retention capacity (accumulation)
- Advanced noise absorption

DIADEM® 150

EXTENSIVE VEGETATION ON FLAT ROOFS

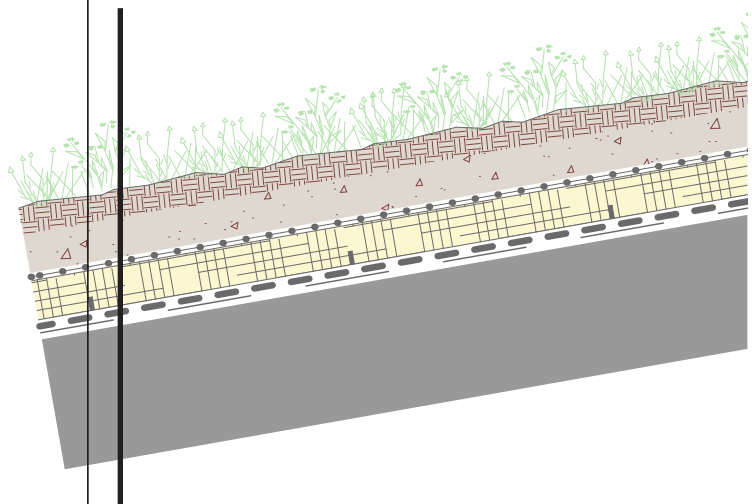
- DiaMat^{PRO} sedum mat
- extensive substrate
- DiaWool E30/E50/I25 mineral wool
- VLF-150 filter layer (optional)
- DiaDrain-25H drainage board
- VLU-300 mechanical protection geotextile
- root-resistant waterproofing membrane
- thermal insulation
- additional layers



DIADEM® 150

EXTENSIVE VEGETATION ON PITCHED ROOFS

- DiaMat^{PRO} sedum mat
- extensive substrate
- DIADEM® geonet
- DiaWool E30/E50/I25 mineral wool
- VLS-500 protection geotextile with moisture retention
- root-resistant waterproofing membrane
- additional layers



SPECIFICATION

DiaWool is a lightweight, hydrophilic product made of volcanic rock. It is capable of absorbing and retaining large amounts of water, and its structural composition guarantees the slow discharge of water from the rock wool. For green roofs (both extensive and intensive), blue roofs, and planters. The material should not be confused with rock wool generally used in the construction industry for thermal insulation, as its chemical purity is so high that it is also used in agriculture for vegetable cultivation as a growing medium. Application areas: green roofs, blue roofs, planters, green spaces between railway tracks.

Product: DIADEM® DiaWool
 Producer's certificate: A.P.P. Kft.
 Website: www.diadem.com



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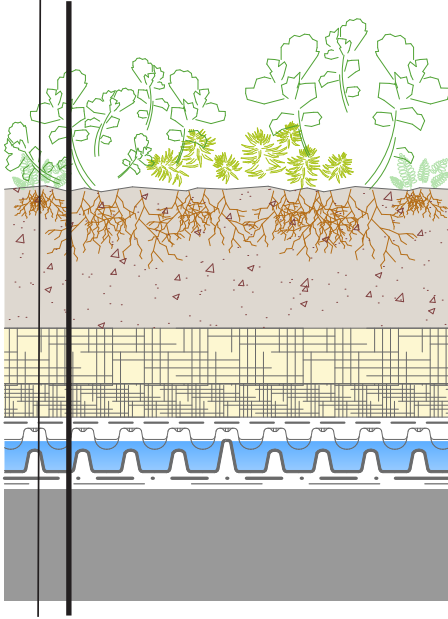
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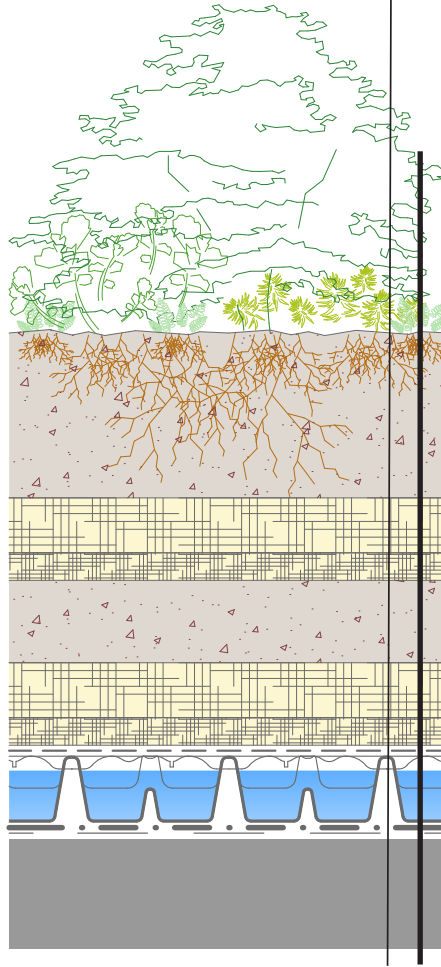
DIADEM® 350 SEMI-INTENSIVE VEGETATION

- semi-intensive vegetation
- intensive substrate
- DiaWool I50 mineral wool
- DiaWool E30 mineral wool
- VLF-200 separation and filter geotextile
- DiaDrain-40H drainage board
- VLU-300 mechanical protection geotextile
- root-resistant waterproofing membrane
- additional layers



DIADEM® 750 INTENSIVE VEGETATION

- intensive vegetation
- intensive substrate
- DiaWool I50 mineral wool
- DiaWool I25 mineral wool
- intensive substrate
- DiaWool I50 mineral wool
- DiaWool I25 mineral wool
- VLF-200 separation and filter geotextile
- DiaDrain-60H drainage board
- VLU-500 mechanical protection geotextile
- root-resistant waterproofing membrane
- thermal insulation
- additional layers



TECHNICAL DATA

	I25	I50	I100	E30	E50	E100
Product number:	410909	410913	410915	410912	410914	410916
Material:	hydrophilic mineral wool					
Thickness (mm):	25	50	100	30	50	100
Air volume (vol. %):	~16					
pH value:	~7-8					
Volume weight dry ([kg/m³] / [kg/m²]):	120 / 3	120 / 6	120 / 12	80 / 2.4	80 / 4	80 / 8
Volume weight saturated ([kg/m³] / [kg/m²]):	1027 / 25,5	1027 / 51	1027 / 102	1003 / 26,4	1003 / 44	1003 / 88
Max. Water capacity (vol. %):	90.7			92.7		
Water retention capacity [l/m²]:	~22,5	~45	~90	~24	~40	~80
Water flow factor [l·m⁻¹·s⁻¹]:	on the slope 0°		1.12	on the slope 2°		1.48
	on the slope 2°		1.19	on the slope 35°		1.53
	on the slope 35°		1.38			1.79
Fire resistance class:	A1					
Heat resistance [°C]:	200					
Melting temperature [°C]:	≥ 1000					
Water permeability [mm/min⁻¹]:	140			227		



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