

DAKU ROOF SOIL 1 prepackaged light substrates are constituted by a mixture of mineral material suitably mixed with organic substances to be effectively used in the construction of hanging gardens on roofs.

Free from weeds, are mainly composed of volcanic lapillus, pumice stone and compost of organic nature named DAKU KOMPOST. During installation, they must be integrated with DAKU PLUS-I fertilizers, supplied separately, in order to get always a substrate in optimal conditions at the time of planting. DAKU substrates are divided into different types depending on the solution of green to realize.

DAKU ROOF SOIL 1: Apparent density of 904 kg/m<sup>2</sup> (1,300 kg/m<sup>3</sup> - full saturation) is characterized by a particle size that allows the planting of trees, shrubs and lawns.

For better rooting of the lawns, where work is carried out with seeding, it is integrated on the surface, to a depth of approx. 20% of the total thickness, with the DAKU ROOF SOIL SEED, a substrate with the same characteristics but lower particle size.

DAKU ROOF SOIL 1 substrates comply with the requirements of UNI 11235:2015. They can be supplied on site in big bags (1m<sup>3</sup>) or unpackaged for any pumping of the substrate on the roofing.



**HIGH DIMENSIONAL STABILITY**  
**HIGH WATER RETENTION**  
**LOW WEIGHT**  
**EXCELLENT PERMEABILITY**



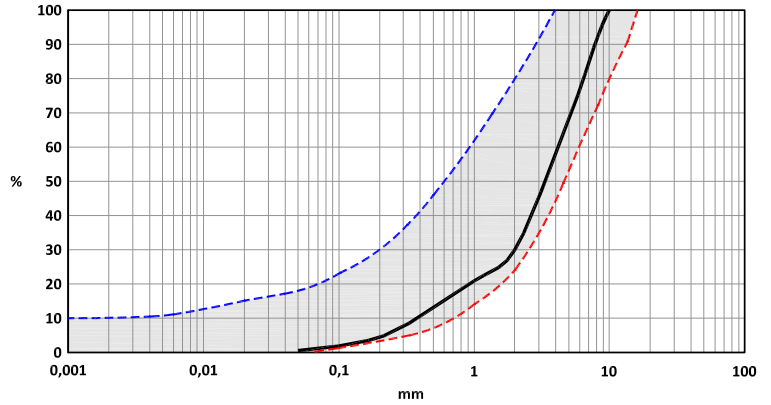
**ROOF SOIL 1**

**PRODUCTS**

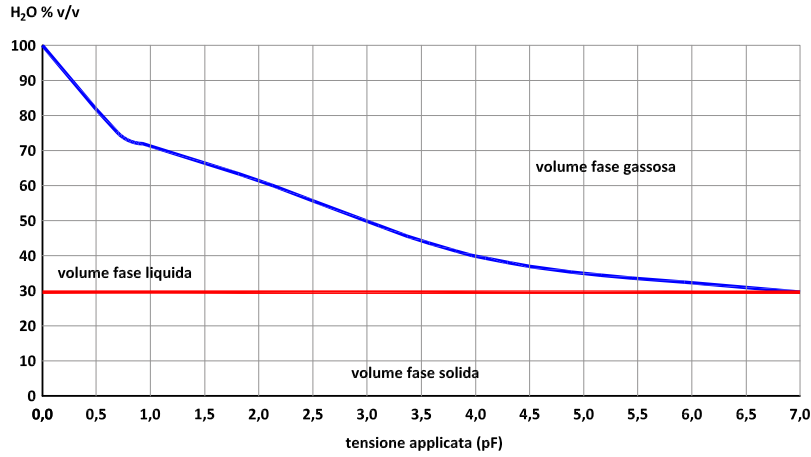
**METHOD OF APPLICATION**

DAKU ROOF SOIL substrates are placed directly over DAKU STABILFILTER geotextile, in variable thickness, commensurate to the specific needs of plant species and their size.

Grading curve



Water retention curve



**TECHNICAL FEATURES**

	ROOF SOIL 1	NORMA UNI 11235
Water permeability (DIN 18035-4)	> 20 mm/min	≥ 10 mm/min
Reduction volume to the compression (DIN 18035-4)	< 9 %	declaration %
Ph value (UNI EN 13037)	7-8	4,0-8,5
Electrical conductivity (UNI EN 13038)	14 mS/m	≤ 60 mS/m
Cationic exchange capacity (DM 13/09/1999)	18,4 meq/100g	≥ 12 meq/100g
Organic substances (UNI EN 13039)	30 g/liter s.s.	≤ 80 g/liter s.s.
Apparent density (UNI EN 13041)	700-800 Kg/mc	350-1000 kg/mc
Total porosity (UNI EN 13041)	≥ 70 % v/v	≥ 60 % v/v
Potential saturation density (UNI EN 13041)	1.464 Kg/mc	declaration
Full saturation density	1.175,5 Kg/mc	declaration
Water volume at pF 0,7 (UNI EN 13041)	≥ 45 % v/v	declaration
Air volume at pF 1,0 (UNI EN 13041)	25-35 % v/v	≥ 15 % v/v
Water available (UNI EN 13041)	> 35 % v/v	≥ 10 % v/v
Commercial volume (UNI EN 12058)	17,2 l (+/- 10%)	declaration



The product is made up exclusively of recyclable components

Complies with the requirements of UNI 11235:2015

The technical data given in this data sheet are average values of production and the product description. DAKU ITALIA Srl reserves the right to make any changes at any time, for an improvement of the product: the user is required to verify to have the updated data sheets.



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