DAKU
LA NATURA SUL TETTO

DAKU LAPILLO is a natural product, made from effusive magmatic mineral (vulsiva vulcanite from Pleistocene period) naturally calcined at high temperature, non-toxic, free from Free Crystalline Silici and free from active limestone.

Formed from a magma with lower silica content than that of pumice stone, the lower viscosity and the slower cooling of the lava have facilitated the leakage of a certain amount of the gases present in the magma, thus forming minerals characterized by vacuity of medium diameter greater than those of the number of pumice but significantly lower in number.

Its highly porous structure makes DAKU LAPILLO an inert with lightweight and insulating properties.
It's a ready-to-pose product, easy to apply, free from toxic hazardous substances and seeds of infesting palnts.
In DAKU green roof is used in various ways such as:
- Layer of filter and drain for intensive heavy gardens that use vegetable soil;
- Filling layer where there is need to raise the height of the roof garden;
- Mulching (in particle size 11-14 mm);
- Stabilization layer for flooring laid dry or finned.
Its mechanical capacity is able to ensure lift and stability over the time.
The particular granulometry provides high drainage capacity and, contextually, its internal porosity is able to absorb and retain a large part of rainwater.

DRAINAGE
HIGH WATER RETENTION
LOW WEIGHT

It complies with the requirements of UNI 11235 for the creation of layers of accumulation in granular aggregates. It can be provided on site in big bags of 1 m3, in bags of 33 liters or in bulk for a possible pumping on the covers.

VULCANIC LAPILLUS
PRODUCTS

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rev. 09-2019

METHOD OF APPLICATION

DAKU LAPILLO is laid by manual drafting directly on DAKU STABILFILTER geotextile filter in variable thickness, commensurate to the specific needs of the project. For mulch is spread over DAKU ROOF SOIL SUBSTRATE as surface finish.

TECHNICAL FEATURES

	DAKU LAPILLO 5/10	DAKU LAPILLO 11/14
Apparent density (UNI EN 13041)	880 - 980 kg/mc	850 - 950 Kg/mc
Granulometry	5 - 10 mm	11 - 14 mm
Water retention (UNI EN 13041)	8 - 13 % v/v	
Water avaible (UNI EN 13041)	6 - 9 % v/v	
Ph value (UNI EN 13037)	7 - 8	
Cationic exchange capacity (DM 13/09/1999)	approx. 18 meq/100g	
Package	Big Bags da 1mc Sacchi da 33 litri su pallet da 1,5mc.	

MEDIUM CHEMICAL ANALYSIS

Average representative sample values of quarry fronts			
SiO_2	56%	Na_2O	2,2%
Al_2O_3	16,5%	TiO_2	0,8%
K_2O	4,9%	MgO	3,1%
Fe_2O_3	6,5%	CaO	8,8%

The product is made up exclusively of recyclable components

Respect the prescriptions foreseen by the UNI 11235: 2015 standard

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