

## **TERMS OF CONTRACT FOR THE “DAKU INTENSIVE DRIVEWAY” SYSTEM**

This is an agreement for the realization of the DAKU INTENSIVE DRIVEWAY system, with a vegetal substrate made of Sedum and in compliance with the prescriptions of the UNI 11235/2015 standards. The system, installed on a waterproof anti-rooting substrate, must meet the following requirement regarding efficiency and sustainability:

- To have a thickness (without vegetation) not superior to 28 cm.
- To have a weight for the saturated system (without vegetation) not superior to 291 kg/m<sup>2</sup>
- To have an air volume not inferior to 56 l/m<sup>2</sup>
- To have a total amount of retained water not inferior to 104.50 l/m<sup>2</sup>
- To have an amount of water retained by porous media not inferior to 71.50 l/m<sup>2</sup>
- To have a total amount of usable water not inferior to 79.50 l/m<sup>2</sup>
- To have a usability ratio not inferior to 0,76
- To have an efficiency ratio not inferior to 0,58
- To have an outflow coefficient (in compliance with UNI 11235/2015 - FLL test) not superior to 0,19

The DAKU INTENSIVE DRIVEWAY system is composed of:

- DAKU DRAIN G450: it is a draining geocomposite with high quality of filtration and drainage. It has an areal density of 710 g/m<sup>2</sup> and a thickness of 5 mm (at 20 kPa). The horizontal drainage capacity at 20 kPa (i=0.01) is not inferior to 0.32 l/m<sup>2</sup>. The vertical drainage capacity at 20 kPa (i=0.01) is not inferior to 0.10 l/m<sup>2</sup>.
- DAKU FSD 30: it is the fundamental basis and engine package. It is a component made of prefabricated sintered expanded polystyrene, which performs a threefold function of protection, drainage and water storage. It has a gross mass of 35 kg/m<sup>3</sup>, a thickness of 80 mm and a hydric storage capacity of 20.3 l/m<sup>2</sup>. The horizontal drainage capacity (1.5% steep) is not inferior to 0.35 l/m<sup>2</sup>. The vertical drainage capacity is not inferior to 0.73 l/m<sup>2</sup>.
- DAKU LAPILLO 5/10: it is a filling layer formed from a magma with lower silica and it respects the requirements for filling layers in granules of the UNI 11235/2015 standards. Its density (at cave humidity) is between 880 and 980 kg/m<sup>3</sup>, the PH levels are between 7/8, the water retention capability is not inferior to 8/13% and the usable water is never less than 6/9%. The substrate thickness is of 8 cm.
- DAKU STABILFILTER SFI: it is a geotextile stabilizer in polypropylene with filtering capabilities. It has a thickness of 1.50 mm (at 2k Pa) and weights 260 g/m<sup>2</sup> (+/-10%). The filtering speed is of 75 mm/s (-30%), with the maximum pore openness of 0.07 mm (+/-30%).
- DAKU ROOF SOIL 1: is a substrate mainly composed of volcanic material (lapillus, pumice stone) and organic matter (DAKU KOMPOST). Its granulometry respects the levels established by the UNI 11235/2015 standards and its dry volumetric mass has a value between 700 e 800 kg/m<sup>3</sup>. The substrate weight, when saturated, is lower than 1.175 kg/m<sup>3</sup>. The PH levels are between 7/8 and the CEC is not lower than 18.4 m<sup>2</sup>/100g. The water retention capability is not inferior to 45% and the usable water is never less than 35%. The substrate thickness is of 10 cm.
- Components for the lawn's protection, made of HDPE with high mechanical performances. The substrate thickness is of 5 cm.
- DAKU MIX SEMINA: it is a mixture of DAKU KOMPOST and volcanic filling layers. Its granulometry respects the levels established by the UNI 11235/2015 standards and its dry volumetric mass has a value between 850 e 950 kg/m<sup>3</sup>. The substrate weight, when saturated, is lower than 1.552 kg/m<sup>3</sup>. The PH levels are between 7/8 and the CEC is not lower than 18.4 m<sup>2</sup>/100g. the water retention capability is not inferior to 45% and the usable water is never less than 35%. The substrate thickness is of 5 cm.
- DAKU PLUS I: it is a fertilizer, in the form of granules, which gradually releases the nutritive substances. It has a concentration of 5 g/m<sup>2</sup> for each centimeter of the substrate. In the fertilizer there is a 13% percentage of nitrogen, a 20% percentage of phosphorous pentoxide (soluble) and a 9% percentage of potassium oxide.
- LAWN: the lawn is made of grasses in pre-built clods, which are then levelled and pressed.
- SPRINKLER SYSTEM: it is an automatic system, with static or dynamic sprinklers. It can be programmed according to the garden's needs.

Depending on the geo-morphological and climatic conditions it may be necessary to equip the system with an irrigation mechanism. All DAKU products comply with the UNI 11235/2015 standards. The sustainability and efficiency certification of the system will be granted only if the guidelines provided by DAKU Srl regarding materials and installation procedures will be respected.



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