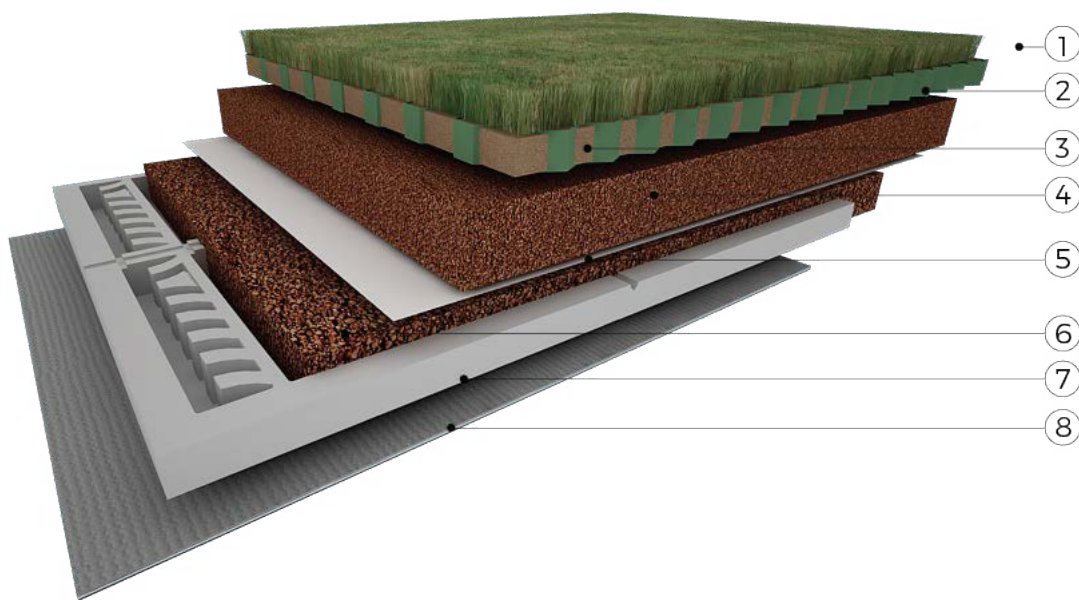


DAKU INTENSIVE DRIVEWAY is a system designed for areas where light vehicles (such as cars) pass or stop. The system must be carefully designed, so to guarantee that it is reliable, usable and that the most delicate components (such as the waterproofing ones) are protected.

The DAKU INTENSIVE DRIVEWAY system is an ideal environment for plants, thanks to the water storage capabilities of the DAKU FSD PARK components and to the special strata DAKU ROOF SOIL. The system creates a strong and regular lawn even in the most extreme conditions.

The system includes components for the protection of the lawn, which can be of different types, depending on the weights it will have to sustain and to the frequency of usage.

All DAKU INTENSIVE DRIVEWAY systems comply with the UNI 11235/2015 standards and respect their parameters of efficiency and sustainability.



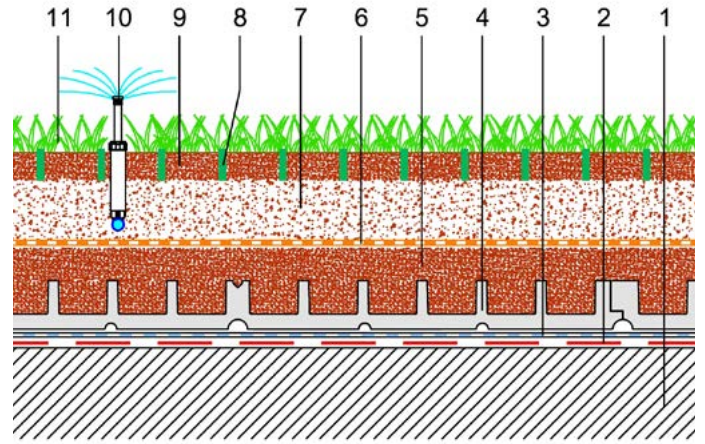
SYSTEM COMPONENTS

1. Lawn
2. DAKU MIX SEMINA (substrate, 5 cm thick)
3. Protection components for the lawn
4. DAKU ROOF SOIL 1 (substrate, 10 cm thick)
5. DAKU STABILFILTER SFI (filter)
6. DAKU LAPILLO 5/10 (filling layer)
7. DAKU PARK (component for drainage and water storage)
8. DAKU DRAIN G450 (geocomposite for drainage and protection)



STRATIGRAPHY

1. Sloped floor
2. Waterproof anti-root covering
3. DAKU DRAIN G450
4. DAKU FSD PARK
5. DAKU LAPILLO 5/10 (5 cm thick)
6. DAKU STABILFILTER SFI
7. DAKU ROOF SOIL 1 (10 cm thick)
8. HDPE lawn protection component
9. DAKU MIX SEMINA (5 cm thick)
10. Sprinkler system
11. Lawn



SYSTEM COMPOSITION

DAKU DRAIN G450: it is a draining geocomposite with high quality of filtration and drainage. It has an areal density of 710 g/m² 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/m². The vertical drainage capacity at 20 kPa (i=0.01) is not inferior to 0.10 l/m².

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/m³, a thickness of 80 mm and a hydric storage capacity of 20.3 l/m². The horizontal drainage capacity (1.5% steep) is not inferior to 0.35 l/m². The vertical drainage capacity is not inferior to 0.73 l/m².

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/m³, 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/m² (+/-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/m³. The substrate weight, when saturated, is lower to 1.175 kg/m³. The PH levels are between 7/8 and the CEC is not lower to 18.4 m²/100g, the water retention capability is not inferior to 45% and the usable water is never less than 36%. The substrate thickness is of 10 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/m² 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..

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/m³. The substrate weight, when saturated, is lower than 1.552 kg/m³. The PH levels are between 7/8 and the CEC is not lower than 18.4 m²/100g, 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.

LAWN: the lawn is made of various grasses, which are planted and 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.

All DAKU's products comply with the UNI 11235/2015 standards.

TECHNICAL DATA

Thickness of the system (without vegetation)	cm ca.	28,00
Weight when saturated (without vegetation)	kg/mq	291,00
Total amount of water for the vegetation	l/mq	79,50
Air volume at pFI	l/mq	56,00

All technical data in this document are indicative values, used to describe the product. DAKU might modify the data when improving to product: clients should verify to have the latest versions of the documents.