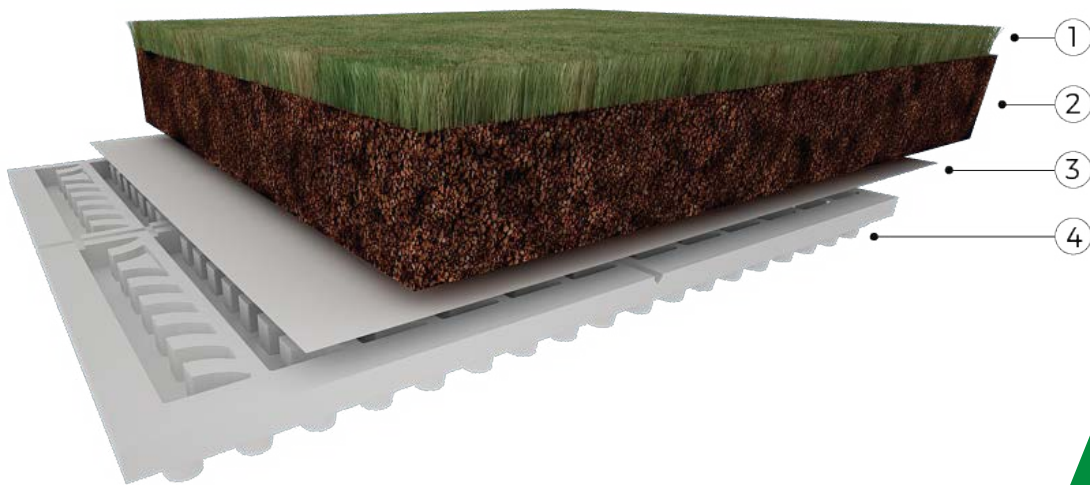


DAKU INTENSIVE STANDARD is the ideal system for those who want to build a garden on a flat roof, while containing weight and thickness. The system creates livable spaces in urban locations, forming natural oasis where people can relax and socialize. It is so reliable that became immediately a clients' favorite and DAKU has been using it for over 25 years.

An INTENSIVE STANDARD system offers a completely walkable lawn, decorated with ornamental bushes of small and medium size, which help improving the garden's aesthetic. It is extremely flexible and can be used both in small private areas or in big public spaces. The system needs an irrigation mechanism and its maintenance costs are comparable to the ones of a ground garden.

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



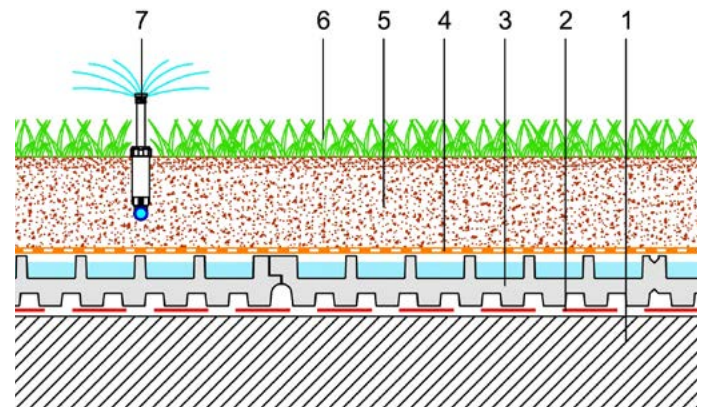
SYSTEM COMPONENTS

1. Grass
2. DAKU ROOF SOIL 1 (substrate, 15 cm thick)
3. DAKU STABILFILTER SFI (Filter)
4. DAKU FSD 20 (component for drainage and water storage)

INTENSIVE STANDARD
SYSTEMS

STRATIGRAPHY

1. Sloped floor
2. Waterproof anti-root covering
3. DAKU FSD 20
4. DAKU STABILFILTER SFE
5. DAKU ROOF SOIL 2 (15 cm thick)
6. Lawn
7. Sprinkler system



SYSTEM COMPOSITION

DAKU FSD 20: 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 25 kg/m³, a thickness of 82 mm and a hydric storage capacity of 13.1 l/m². The horizontal drainage capacity at 20 kPa (i=0.01) is not inferior to 1.44 l/m². The vertical drainage capacity is not inferior to 0.73 l/m². The air volume of the system when fully saturated is of 21.5 l/m².

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 than 1.175 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 tto 45% and the usable water is never less than 36%. The substrate thickness is of 15 cm.

DAKU PLUS 1: 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.

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.

DAKU CONTROLLER: components that allow to inspect the air vents and drainage wells. They are made of an aluminum-magnesium alloy and have slots (external cover included) for drainage and ventilation.

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

TECHNICAL DATA

Thickness of the system (without vegetation)	cm ca.	23,00
Weight when saturated (without vegetation)	kg/mq	192,00
Total amount of water for the vegetation	l/mq	69,00
Air volume at pFI	l/mq	64,50

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.