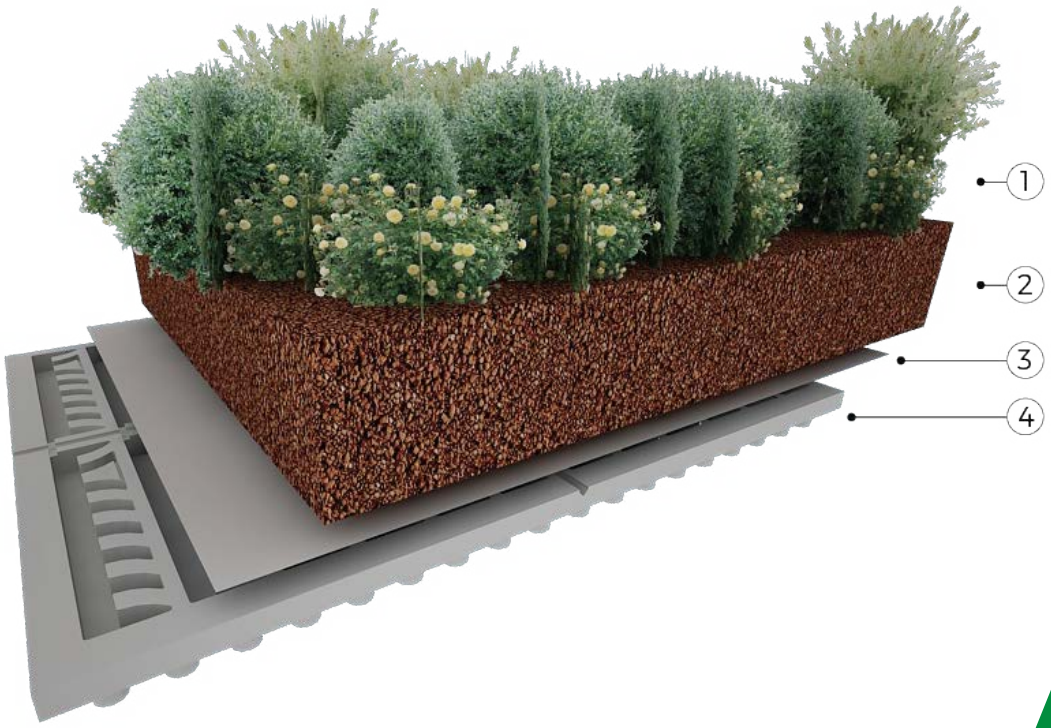
DAKU
LA NATURA SUL TETTO

DAKU INTENSIVE PLUS is an upgraded version of the STANDARD system. It allows greater freedom in design and has thicker substrates. Each substrate in fact, can be modelled depending on the client's needs, meaning that is possible to use a vast selection of plants (from groundcover plants to small trees).

In order to realize this type of garden, every aspect must be carefully planned, so to merge aesthetic, plants and support systems (electric, lights, irrigation, drainage and sound).

For the installation, DAKU will provide a team with long working experience on rooftops and gardens.

All DAKU INTENSIVE PLUS systems comply with the UNI 11235/2015, respecting its parameters of efficiency and sustainability.



SYSTEM COMPONENTS

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

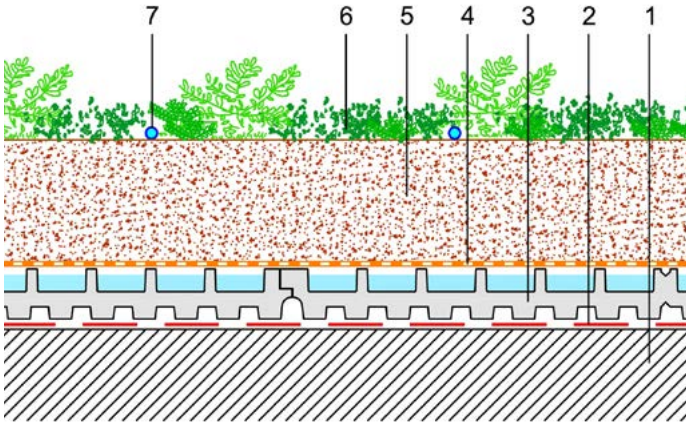
INTENSIVE PLUS SYSTEMS

DAKU
LA NATURA SUL TETTO

rev. 04-2017

STRATIGRAPHY

1. Sloped floor
2. Waterproof anti-root covering
3. DAKU FSD 20
4. DAKU STABILFILTER SFI
5. DAKU ROOF SOIL 2 (20 cm thick)
6. Vegetation (groundcover plants and bushes)
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: it 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 norm 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 to 45% of water and the usable water is never less than 36%. The substrate thickness is of 20 cm.

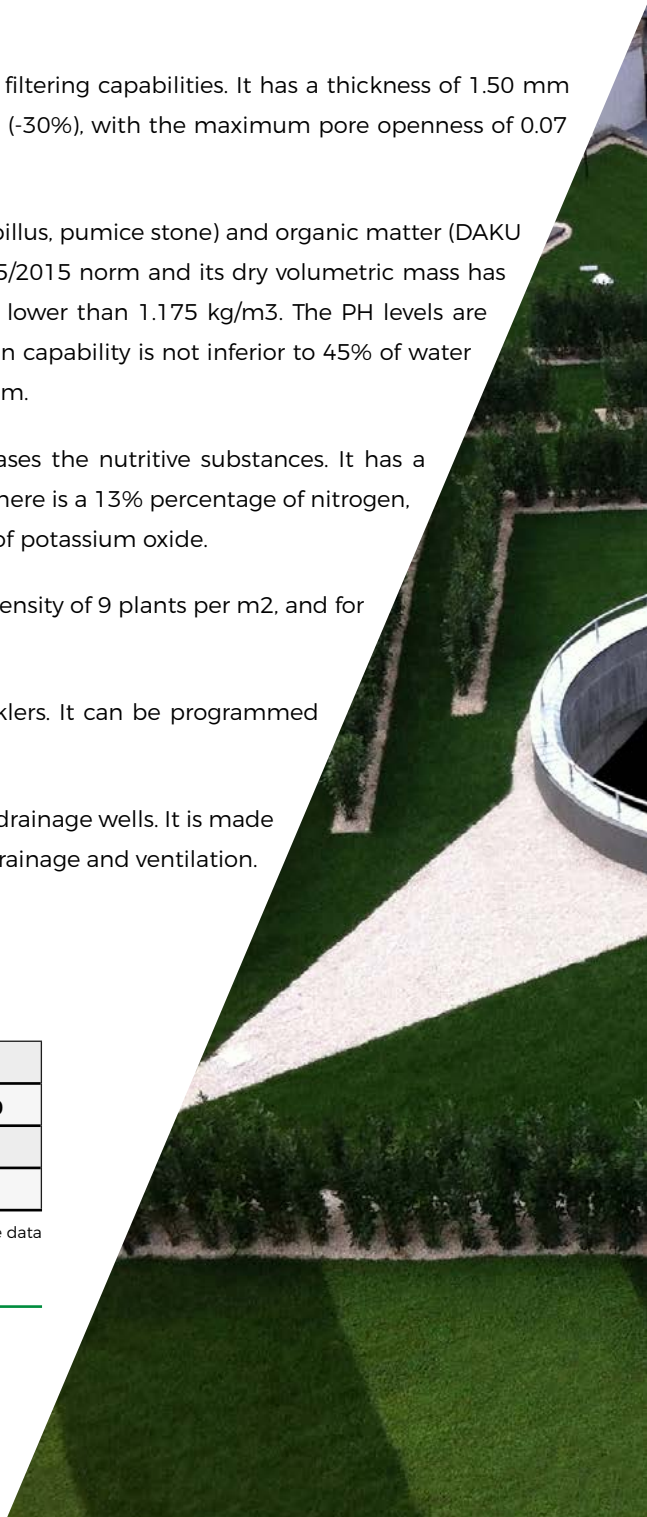
DAKU PLUS I: it is a fertilizer, in the form of granules, which gradually releases the nutritive substances. It has a concentration of 5 g/m2 for each centimeter of the substrate. In the fertilizer there is a 13% percentage of nitrogen, a 20% percentage of phosphorous pentoxide (soluble) and a 9% percentage of potassium oxide.

VEGETATION: it is made for the 70% of groundcover plants (in vase 9), with a density of 9 plants per m2, and for the 30% of small bushes (in vase 13), with a density of 7 plants per m2.

SPRINKLER SYSTEM: it is an automatic system, with static or dynamic sprinklers. It can be programmed according to the garden's needs.

DAKU CONTROLLER: it is a component that allow to inspect the air vents and drainage wells. It is made of an aluminum-magnesium alloy and has 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.	28,00
Weight when saturated (without vegetation)	kg/mq	251,00
Total amount of water for the vegetation	l/mq	87,00
Air volume at pF1	l/mq	79,00

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.

Daku Italia s.r.l.
Via XIII Martiri, 28
30027 San Donà di Piave (VE) - Italy
P.I./C.F. 02972700278

www.daku.it
daku@daku.it
Tel. +39 0421 51864
Fax: +39 0421 334491