

DAKU EXTENSIVE PLUS is a system that combines hydric efficiency with a more pleasant and refined aesthetic. This is obtained by using various plants species (for the most part local), which also enhance the ecological value of the rooftop. Besides, the system has an irrigation mechanism, allowing more delicate plants to grow. All the selected plants however can resist to droughts, are able to reproduce autonomously and do not need constant care.

DAKU EXTENSIVE PLUS systems comply with the UNI 11235/2015 standards and respect their parameters of efficiency and sustainability.



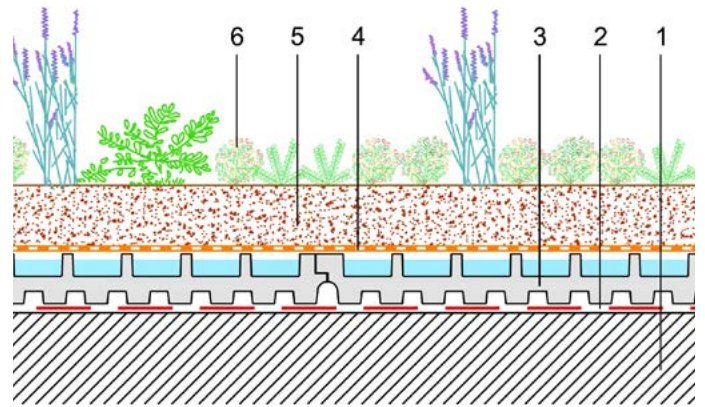
SYSTEM COMPONENTS

1. DAKU SEDUM (Mixture of Sedum) and perennial grasses
2. DAKU ROOF SOIL 2 (substrate, 10 cm thick)
3. DAKU STABILFILTER SFE (Filter)
4. DAKU FSD 20 (component for drainage and water storage)

EXTENSIVE PLUS
SYSTEMS

STRATIGRAPHY

1. Sloped floor
2. Waterproof anti-root covering
3. DAKU FSD 20
4. DAKU STABILFILTER SFE
5. DAKU ROOF SOIL 2 (10 cm thick)
6. DAKU SEDUM and perennial grasses



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 SFE: it is a geotextile stabilizer in polypropylene with filtering capabilities. It has a thickness of 1.35 mm (at 2k Pa) and weights 220 g/m² (+/-10%). The filtering speed is of 85 mm/s (-30%), with the maximum pore openness of 0.08 mm (+/-30%).

DAKU ROOF SOIL 2: 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 650 e 750 kg/m³. The substrate weight, when saturated, is lower than 1.072 kg/m³. The PH levels are between 7/8 and the CEC is not lower than 16.3 m²/100g. The water retention capability is not inferior than 40% and the usable water is never less than 30%. The substrate thickness is of 8 cm.

DAKU PLUS E: it is a fertilizer, in the form of granules, which gradually releases the nutritive substances. It has a concentration of 8 g/m² for each centimeter of the substrate. In the fertilizer there is a 14% percentage of nitrogen, a 13% percentage of phosphorous pentoxide (soluble) and a 12% percentage of potassium oxide.

VEGETAL LAYER: it is a vegetal substrate composed of DAKU SEDUM TALEA and perennial grasses. the mixture includes different species of Sedum with different length and size; the minimum density is of 80 g/ m². Perennial grasses have a density of 3 plants per m² on the 30% of the surface.

Depending on the morphological and climatic conditions of the local environment, it may be necessary to equip the DAKU EXTENSIVE system with an irrigation mechanism.

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

TECHNICAL DATA

Thickness of the system (without vegetation)	cm ca.	18,00
Weight when saturated (without vegetation)	kg/mq	123,00
Total amount of water for the vegetation	l/mq	45,00
Air volume at pFI	l/mq	56,50

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.