

DAKU FSD 30 components (100 mm thick) are made of sintered expanded polystyrene foam. They are produced with materials free from regenerated elements. Used for water storage and drainage, they are supplied in sheets of white color, barely flammable; their size is of 125x100 cm.

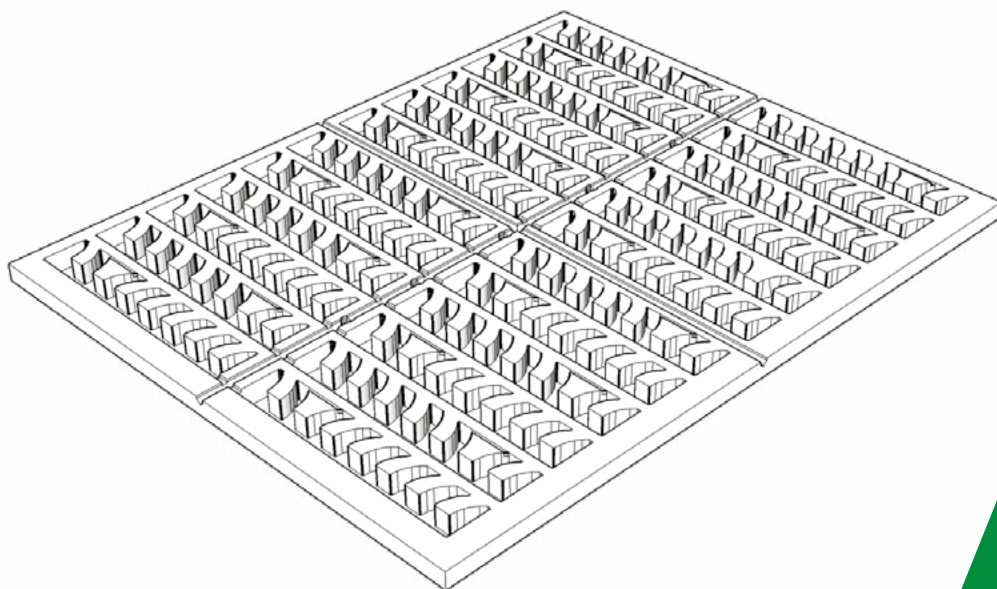
DAKU FSD 30 components protect the waterproof substrates, store rainwater and return it to the vegetation through a process of condensation and evaporation called "water spread". This allows the vegetation to have long term water supplies. They can be used for the realization of extensive rooftop gardens on plain surfaces or pitched roofs. All components, in regard of water drainage, comply with the DIN 4095 standards (for buildings drainage protection). They also create a protective layer to mechanical stress for the waterproof substrates as required by DIN 18195 Part 1 and DIN 18195 part 10. They are provided with CE marking (according to UNI EN 13163) and can also act as thermal insulation components.

The upper part of the sheet has a series of cells, equipped with overflow and drainage canalizations, which accumulate water, with a maximum capacity of 5 l/m². Between the external edge of the 10 mm sheet and the maximum level of the overflow there is the upper ventilation layer, designed to prevent water from reaching the substrate. The lower part of the sheet has 252 truncated-cone section feet with a diameter of approx. 36 mm and height 20 mm each. These feet, through a series of 101 holes (diameter 15 mm each), communicating with the overflow and the ventilation layer placed on the upper face, allow to elevate the sheet from the bottom surface,



**WATERPROOF MEMBRANE PROTECTION
DRAINAGE
WATER STORAGE STANDARD
THERMAL INSULATION**

creating an increased drainage chamber. They also provide a high level of vertical drainage for the water in excess. All DAKU FSD 30 elements comply with the UNI 11235 standards.



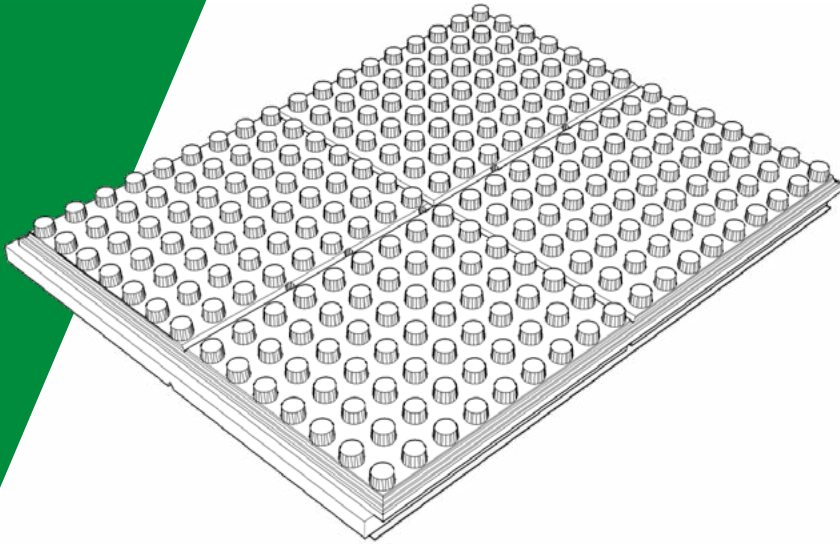
FSD 30

PRODUCTS

METHOD OF INSTALLATION

DAKU FSD 30 components are laid on the waterproof/insulation surface both staggered or in pairs. Depending on the type of surfaces on which they are positioned, it may be necessary a separation layer between the waterproofing and DAKU FSD 30 components; the features of this additional layer must not prevent the normal flow of the drain water. In case of installation on pitched roofs, the storage cells have to be placed transversally to the slope, so as to maintain

the maximum storage capacity. DAKU FSD 30 components are usually filled with water to ensure stability during the installation and to store enough water for the time of planting. On critical surfaces or wherever it is not possible to install them in their shape, cuts may be performed with cutter or hacksaw. It is however fundamental to damage the minimum number of cells possible, so as not to lose water



TECHNICAL FEATURES

Dimensions	1250 x 1000 mm
Thickness	100 mm
Raw mass	25 Kg/mc (+/-10%)
Maximum water storage capacity	20,3 liters/mq
Battente tra pelo libero dell'acqua e filtro	13 mm
Free air volume at maximum water storage capacity	23,0 liters/mq
Drainage capacity at 20 kPa (EN ISO 12958) with i=0.01 - vertical - horizontal	1,46 l/ms 1,44 l/ms
Drainage capacity at 20 kPa (EN ISO 12958) with i=0.1 - vertical - horizontal	4,95 l/ms 4,90 l/ms
Vertical drainage capacity (EN ISO 11058)	0,73 l/m ² s
Thermal dispersion resistance K	0,71 mq x K/W
Thermal conductivity (UNI EN 12667)	0,034 W/mK
Height of support feet	20 mm
Number of support feet	nr. 252
Surface	2.052 cmq/mq
Flammability Class	E according to EN 13501
Supply	pallet with 24 components (30 m ²)



The product is made up exclusively of recyclable components



CE conformity in accordance with Directive 89/106/CEEE

Complies with the requirements of UNI 11335:2015

The technical data given in this data sheet are average values of production and product description. DAKU ITALIA Srl reserves the right to make any changes at any time, for an improvement of the product: the user is required to verify to have the updated data sheets. The quality of the product is guarantee in accordance of rule EN 13163. Product is CFC free.



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