DAKU
LA NATURA SUL TETTO

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.

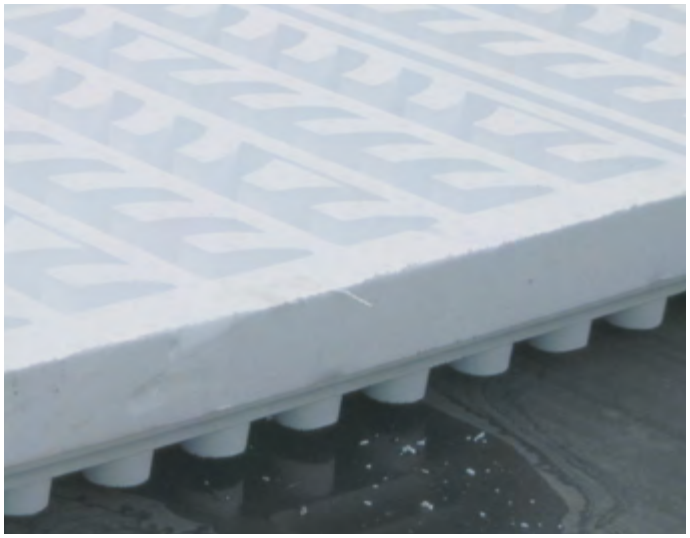
They can be used for the realization of extensive rooftop gardens on plain surfaces or pitched roofs.

Compliant with the UNI 11235/2015 standard, they also create a protective layer to mechanical stress for the waterproof substrates.

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 20 l/sqm.

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.

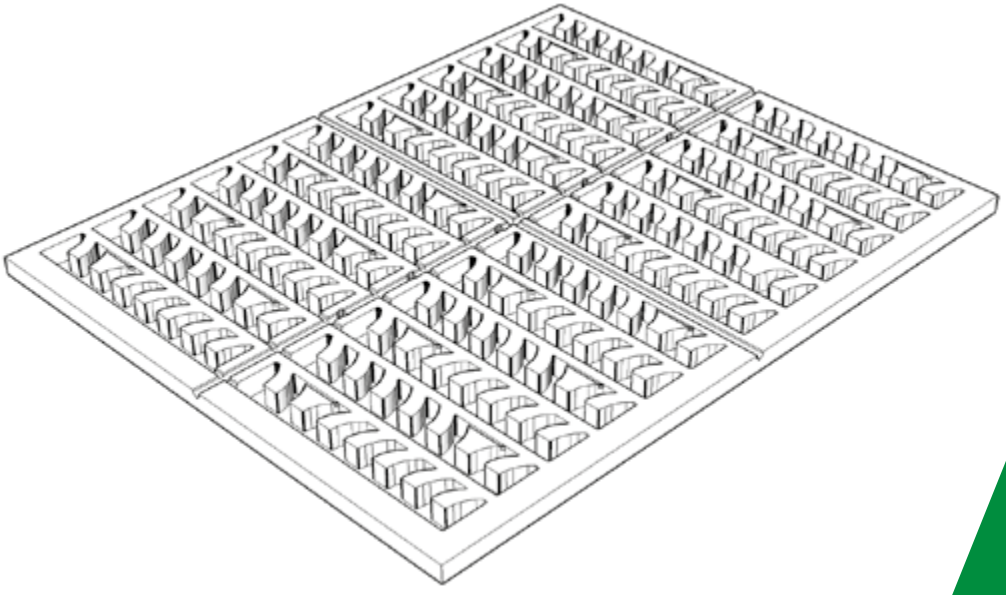


WATERPROOF MEMBRANE PROTECTION
DRAINAGE
INCREASED WATER STORAGE
THERMAL INSULATION

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, creating an increased drainage chamber.

They also provide a high level of vertical drainage for the water in excess.

The DAKU FSD 30 element complies with the requirements of the UNI 11235/2015 standard.



FSD 30

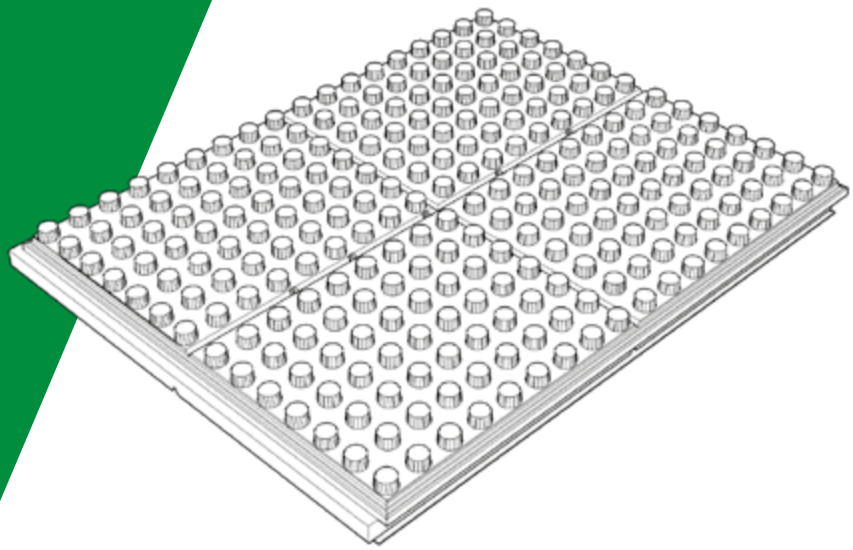
PRODUCTS

DAKU
LA NATURA SUL TETTO

rev. 03-2023

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/m3 (+/-10%)
Maximum water storage capacity	20,3 liters/sqm
Battente tra pelo libero dell'acqua e filtro	13 mm
Free air volume at maximum water storage capacity	23,0 liters/sqm
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/m²s
Thermal dispersion resistance K	0,71 sqm 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 cm2/sqm
Flammability Class	E according to EN 13501
Packing	pallet with 24 elements (30 sqm)

6 PS

The product is made up exclusively of recyclable components

Complies with the requirements of UNI 11235:2015

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.

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