DAKU
LA NATURA SUL TETTO

DAKU FSD 20 elements are panels with a total thickness of 82 mm, are made of sintered expanded polystyrene foam and produced with material free from regenerated. Used for storage and water drainage, they are supplied in sheets of white color, barely flammable, batented on the sides, the size of 125x100 cm.

DAKU FSD 20 elements, by protecting thewaterproof element, store rainwater and return it to the vegetation through a process of balanced capillary transmission of condensation and micro-evaporation called "water spread" that allows vegetation to have a long-term water supply.

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

The support surface is highly drained by numerous truncated-conical supports.

They can be used for the implementation of intensive and extensive green on both plane surface and sloping roofs.

The upper part of the panel has a series of parallel cells, equipped with overflow, which perform the task of accumulating water of 13 lt/sqm.

The space present between the portion of the overflow and sheet extrados of 10 mm, is the layer of upper aeration, necessary to prevent the contact of water with the substrate.
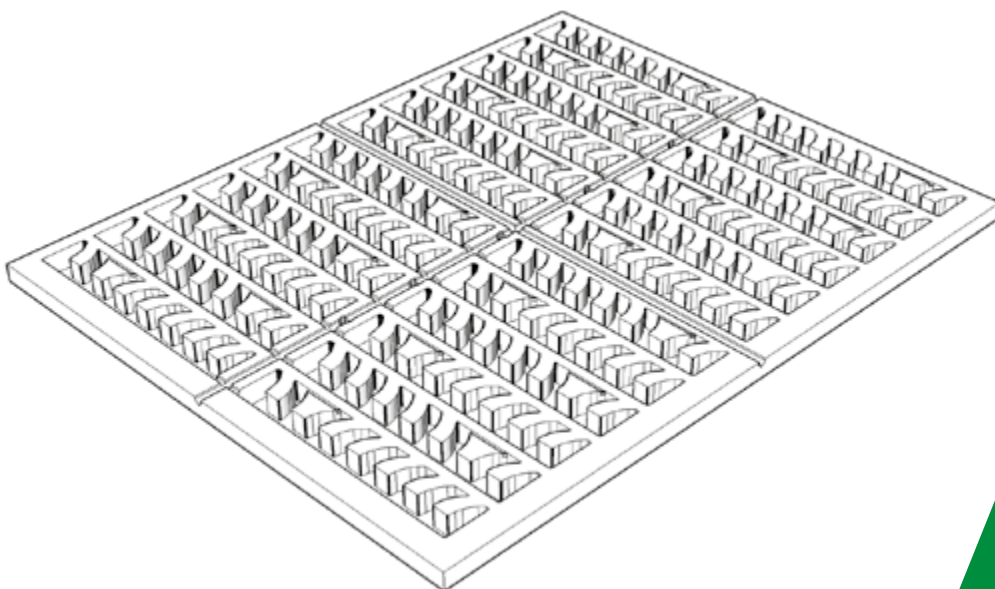
The underlying part of the panel has n° 252 supports with

WATERPROOF MEMBRANE PROTECTION
DRAINAGE
WATER STORAGE STANDARD
THERMAL INSULATION

a diameter of 36 m and a height of 20 mm, which through a series of 5 holes (diameter 15 mm each), communicating with the overflow and the aeration space places on the upper face, allow the drainage of water exceeding the maximum capacity of water supply on the waterproof layer, right down to the drains of the cover.

The DAKU FSD 20 element complies with the requirements of the UNI 11235/2015 standard.
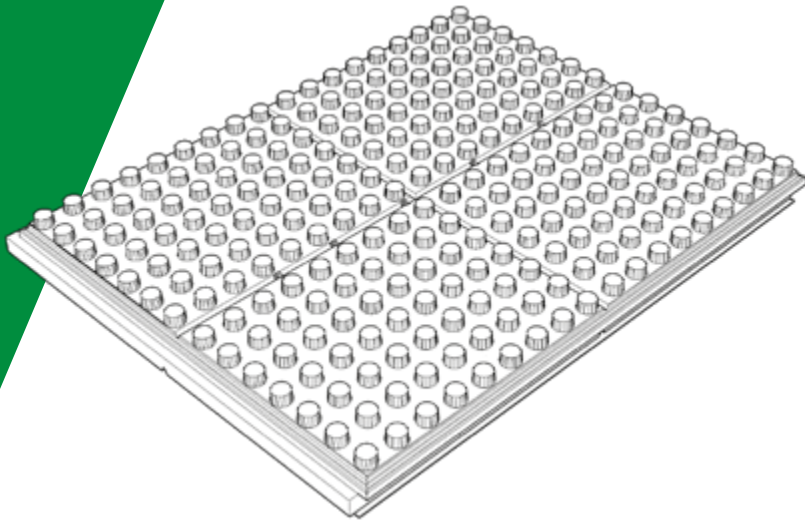

FSD 20

PRODUCTS

METHOD OF APPLICATION

DAKU FSD elements are dry-laid directly on the waterproof layer and stuck to each other, both staggered or pairs. Depending on the type of waterproof stratigraphies on which they are placed, it may be necessary a separation layer between the waterproofing and DAKU FSD elements, taking care that the features of the same do not impede the normal flow of the drain water.

Be careful in case of installation on inclined surfaces in order to preserve the maximum water reserve taking care to orientate the cells in an appropriate way. They are usually filled with water to ensure stability during processing and to allow storage of water required at the time of planting.

For the critical points and wherever it is not possible to install them as a whole, cuts may be performed on them with cutter or hacksaw, taking care to damage the minimum number of cells, to lose the least amount of water reserve.

TECHNICAL FEATURES

Dimensions	1250 x 1000 mm
Thickness	82 mm
Density	25 Kg/m3 (+/-10%)
Maximum water storage capacity	13,1 liters/sqm
Space between the highest level of water reserve and filter	10 mm
Free air volume with maximum water accumulation	21,5 liters/sqm
Horizontal drainage with 20 kPa(EN ISO 12958) i=0,01 - longitudinal - transversal	1,46 l/ms 1,44 l/ms
Horizontal drainage with 20 kPa(EN ISO 12958) i=0,1 - longitudinal - transversal	4,95 l/ms 4,90 l/ms
Vertical drainage (EN ISO 11058)	0,73 l/m^{2}s
Thermal dispersion resistance	0,71 sqm x K/W
Thermal conductivity (UNI EN 12667)	0,034 W/mK
Supports's height	20 mm
Number of supports	nr. 252
Support surface	2.052 cm2/sqm
Flammability	E according to EN 13501
Packing	pallet with 32 elements (40 sqm)

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.