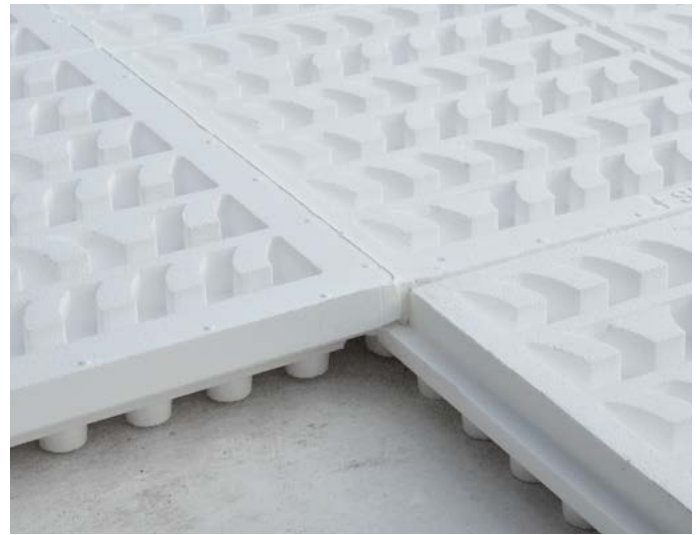


DAKU FSD 20 elements are panels with a total thickness of 82 mm, are made of sintered expanded polystyrene foam and produced with material free from regenerated. Used for storage and water drainage, they are supplied in sheets of white color, barely flammable, patented on the sides, the size of 125x100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

All the elements, with regard to water drainage, are in accordance with DIN 4095 (buildings drainage protection), also create a protective layer to mechanical stress for the waterproof stratigraphy as required by DIN 18195 part 1 and DIN 18195 Part 10; 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. Provided with CE marking (according to UNI EN13163) they perform the function of thermal insulation and guarantee the following properties: Thermal conductivity of 0.034 W/mK, Thermal resistance of 0.71m² K/W, Resistance to compression (at 10% deformation) equal to 150 kPa, Reaction to fire class E, Water absorption 3.8%.

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/m². The space present between the portion of the overflow and sheet extrados of 10 mm, is the layer of upper aeration, necessary to prevent

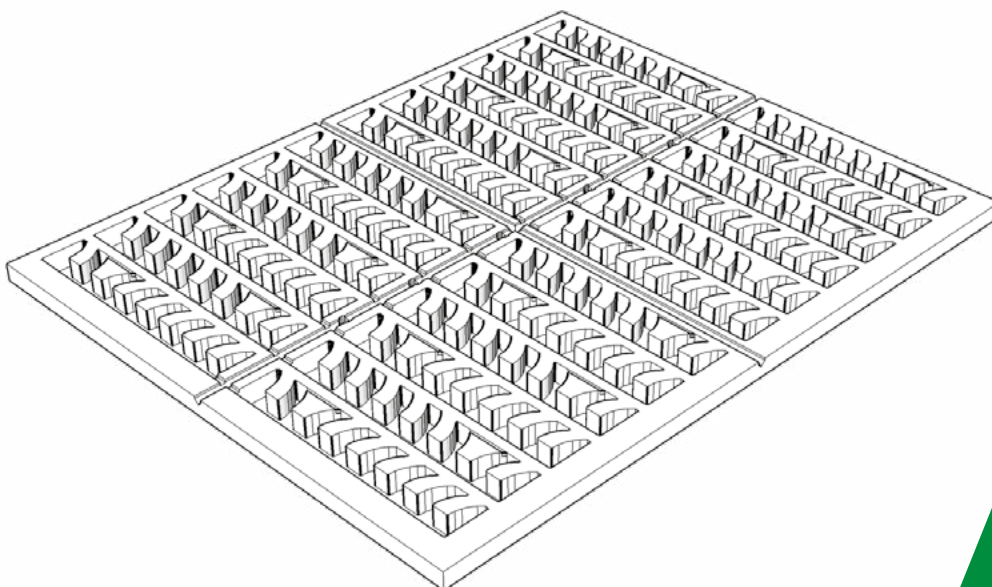


**WATERPROOF MEMBRANE PROTECTION
DRAINAGE
WATER STORAGE STANDARD
THERMAL INSULATION**

the contact of water with the substrate.

The underlying part of the panel has n° 252 supports with a diameter of 36 mm 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.

DAKU FSD 20 elements are in accordance by regulations UNI 11235:2015.



FSD 20

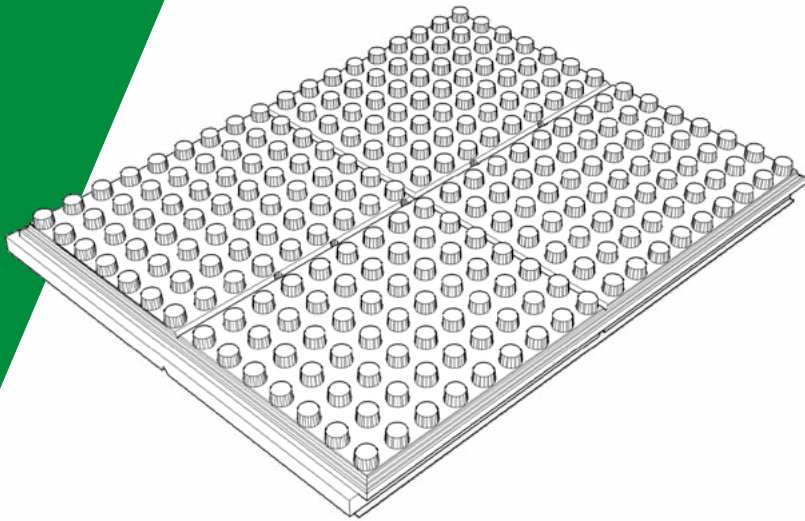
PRODUCTS

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/mc (+/-10%)
Maximum water storage capacity	13,1 liters/mq
Space between the highest level of water reserve and filter	10 mm
Free air volume with maximum water accumulation	21,5 liters/mq
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 mq 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 cmq/mq
Flammability	E according to EN 13501
Packing	pallet of n. 32 elements (40 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 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. The quality of the product is guarantee in accordance of rule EN 13163. Product is CFC free.



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