

PRODUCT CARD

GREENFOND
40 Garden

GREENFOND 40 Garden drainage and drainage unit (HDPE) with high accumulation of water and load capacity. For use in an intense green roof system

The GREENFOND 40 Garden retention and drainage unit is used in system solutions for intensive and extensive green roofs. The innovative shape of profiles and a properly selected mix of hardened HDPE polyethylene have a significant impact on the mechanical and physical properties of the product, thanks to which we get above-average retention parameters in its class.

GREENFOND 40 Garden is able to collect about 15 liters on one square meter, while the majority of this type of products accumulates an average of 10 liters in the same unit. In addition, GREENFOND Garden 40 is characterized by a very high compressive strength of about 400 kN / m², and after filling with aggregate even up to 850 kN / m².

GREENFOND 40 Garden is also an innovative design of the entire module. Thanks to the special embossing of its edges, we can make their interconnection, which in contrast to currently used solutions the so-called "contact" method (laying a board next to another), we get a stable construction of the entire drainage layer, while the assembly method is easy and fast for the contractor.

In addition, GREENFOND 40 Garden has on the upper surface of the profile additional special embossing, unsealing to a small extent direct contact with the GREENFOND Tex 100 drainage fabric, which in effect allows free air flow between the individual sections, and in cases of heavy rain it also provides effective discharge of excess water.



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Extreme water accumulation - approx. 15 liters / m ²
Above average compressive strength - 400 kN / m ²
Good ventilation of the structure and effective retention
Safe and easy assembly

TECHNICAL DATA OF THE PRODUCT:		
Material	HDPE	
The height of the embossments	40 mm	
Weight	2,3 kg/m ²	
Material thickness	1,4 mm	
Water capacity	15 l/m ²	
Number of embossments on the board	162	
Maximal load with filling	- profiles arranged in the maximum retention system: 850 kN / m ² - profiles arranged "inversely": 1,400 kN / m ²	
Maximal load without filling	400 kN/m ²	
Tensile strength	21 kN	
Elongation at max. Load	18,2 %	
Water flow capacity in the plane	l=1,0. (m x s)	l=0,1
	20 kPa - 4,5	20 kPa - 3,81
	100 kPa - 3,4	100 kPa - 3,38
	200 kPa - 2,0	200 kPa - 2,02
Color	black	
Form	sheets	
The size of the board	2 x 1 m/2m ²	
Durability	50 years	
Integrated with non-woven fabric	no	
The weight of the product	4,7 kg	
Article numer	25.1205	