

PRODUCT CARD

GREENFOND

20 Garden DUO R1000

GREENFOND 20 Garden DUO R1000 retention and drainage layer made of hardened polyethylene(HDPE) with a height of 20 mm, integrated with filter geotextile

GREENFOND 20 Garden DUOR1000 retention and drainage layer made of high density HDPE polyethylene, integrated with durable filtration geotextile. Due to the appropriately selected shape and 20 mm high embossing, this product is characterized by optimal water accumulation capacity, which allows it to be successfully used on extensively green roofs. On the other hand, due to the perforation made properly, excess rainwater can be freely diverted to the roof drain. All used product components are fully recyclable. Thanks to the appropriate size of the roll, i.e. width 2 m, length 10 m, we can quickly and efficiently place the product on large surfaces. The product has an excess of nonwoven on its width, which facilitates the mutual stacking of individual products among themselves. The use of a substrate directly deposited on the filtration fabric is fully possible.



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TECHNICAL DATA OF THE PRODUCT:

Material	PN EN 1849-2	HDPE + PP
Weight	PN EN 1858-2	1140(+/-10%) g/m ²
Layer weight		1000+110+klej g/m ²
Roll dimensions		2x10 m
The height of the embossments		20 mm

PHYSICAL AND MECHANICAL PROPERTIES OF GEOCOMPOSITE

Water flow capacity in the product plane Gradient = 1, pressure 20 kPa	PN EN 12958	8,5(-1,9) (m ² /s)*10 ⁻³
Tensile strength along the length	PN EN 10319	13,0(-1,2) kN/m
Tensile strength across	PN EN 10319	12,5(-0,6) kN/m
Elongation at max. load along	PN EN 10319	50(+/-9) %
Elongation at max. load across	PN EN 10319	47(+/-9) %
Compressive strength	PMS 967252:2013	285(+/-40)kN/m ²
Water storage capacity	PMS 01:2017	7(+/-0,5) l/m ²
Oxidation resistance	PN EN 13438	Expected durability at least 25 years in natural soils with 4 <pH <9 and temperature <25oC
Weathering resistance	PN EN 12224	The covering should take place at the latest 2 weeks after embedding

PHYSICAL AND MECHANICAL PROPERTIES OF GEOTEXTILE

Surface mass	PN EN ISO 9864:2005(U)	110(+/-10) g/m ²
Tensile strength along the length	PN EN 10319	7(-0,9) kN/m
Tensile strength across	PN EN 10319	7(-0,9) kN/m
CBR static puncture resistance	PN EN 12236	1(-0,1) kN/m
Dynamic puncture resistance with a cone	PN EN 13433	35(+7) mm
Characteristic pore size	PN EN 12956	140(±42) μm
Water permeability in the perpendicular plane	PN EN 11058	70*10 ⁻³ (-21*10 ⁻³) m/s
Article Number		25.1203-3