

DANODREN H15 PLUS

Danodren H15 Plus is a nodular sheet composed of high density polyethylene (HDPE) and joined to a non-woven geotextile of calendered polypropylene of 115 g/m². Nodule height is 7,3 ± 0,2 mm. It is specially designed as drainage layer and for protection of underground walls and slabs in contact with the ground.



CE MARKING



Identification number of the Certification Body: 0099

DERIVADOS ASFALTICOS NORMALIZADOS S.A.
Calle La Granja 3 (28108 - Alcobendas, MADRID)

Year in which the CE marking was affixed: 2008
Certificate number CPF: 0099 / CPD / A42 / 0053
European standard EN 13252

Produced at: Polígono Industrial Sector 9 (19290 - FONTANAR, Guadalajara)

The product fulfils the requirements established on the above mentioned norms, for the following applications: "F+S+R+D"
F= Filtration S= Separation R= Resistance D= Drainage

TECHNICAL DATA

PHYSICAL PROPERTIES	VALUE	UNIT	NORM
Longitudinal tensile strength	15.0, -2.0	kN/m	UNE EN ISO 10319
Transversal tensile strength	14.0, -2.0	kN/m	UNE EN ISO 10319
Longitudinal elongation at break	100, ±20	%	UNE EN ISO 10319
Transversal elongation at break	70, ±20	%	UNE EN ISO 10319
Puncture resistance (CBR)	2.5, -0.5	kN	UNE EN ISO 12236
Dynamic perforation test	16, +3	mm	UNE EN 918
Water permeability	0.0614, -0.00921	m/s	UNE EN ISO 11058
Waterflow capacity in their plane		m ² /s	UNE EN ISO 12958
Opening size	160, ±30	µm	UNE EN ISO 12956
N. of nodules	1907	-	-
Compressive resistance	180 ±20%	KN/m ²	UNE EN ISO 604
Modules of elasticity	1500	N/mm ²	ISO 178
Water absorption	1	mg/4d	DIN 53495
Drainage capacity, approx.	5	l/s.m	5
Temperature range	-30 a 80	°C	-
Air volume between nodules, approx.	5.9	l/m ²	-

DECLARATION OF CONFORMITY



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Calle La Granja 3 (28108 - Alcobendas, MADRID)

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This product is according to the Z.A. Annex of the UNE-EN 13252

Certificate number CPF: 0099 / CPD / A42 / 0053

José Antonio Manzarbeitia Valle
Manager Quality and R&D Manager.
Fontanar, March 01st 2009

PRESENTATION

PRESENTATION	VALUE	UNIT
Length	20	m
Width	2.10	m
Nodule height	7,3 ± 0,2	mm
Roll surface	42	m ²
Rolls per pallet	6	rolls
Product Code	314061	-

WARNING

The information that appears in the following document makes reference to the uses and utilities of danosa's products and systems, and it is based on the knowledge that have been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Danosa is not responsible for unsuitable uses of the products neither any other facts, such as meteorological facts. So Danosa is just responsible for the quality related to the provided products.
Danosa reserves the right to carry out modifications without previous notice.

The values that appear in the technical sheet are the results of the tests that have been performed in our laboratory. March 2007

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