

# DANODREN H15 PLUS

## Drainage layer

### Product Information

#### Description:

**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/m<sup>2</sup>. Nodule height is 7.3 ± 0.2 mm. It is specially designed as a drainage layer and for protection of underground walls and slabs in contact with the ground.

#### Packaging:

Rolls: 15 x 2.1m  
Nodule height: 7.3mm  
Roll surface: 42m<sup>2</sup>  
Rolls/pallet: 6

#### Standards & Certification:

CE Marking: 2008 Certificate Number CPF: 0099/CPD/A42/0053  
European standard EN 13252  
The product fulfills the requirements established on the above mentioned norms, for the following applications: "F+S+R+D"  
Filtration, Separation, Resistance and Drainage.



#### Warning:

The information that appears in this document makes reference to the uses and utilities of Danosa's products and systems, and it is based on the knowledge that has been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way. Danosa is not responsible for unsuitable uses of the products or any other factors, such as meteorological facts, so Danosa is only 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 this technical sheet are the results of the tests that have been performed in our laboratory as at March 2007.

Technical Data	Value	Unit	Standard
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
Drainage capacity (i=0.1) in the plane of the geocomposite (at 100Kpa compression)	0.44	l/m.s	UNE EN ISO 12958
Opening size (geotextile)	160, ±30	µm	UNE EN ISO 12956
Compression resistance	180, ±20%	KN/m <sup>2</sup>	UNE EN ISO 604
Modules of elasticity	1500	N/mm <sup>2</sup>	ISO 178
Water absorption	1	mg/4d	DIN 53495
Temperature range in use	-30 a 80	°C	-
Air volume between nodules, approx.	5.9	l/m <sup>2</sup>	-

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