

DANODREN >5 F 8-B

DANODREN JARDÍN is a high density polyethylene (HDPE) green nodular sheet bonded by thermofusion to a nonwoven calendered polypropylene geotextile. Its main use is for protection and horizontal drainage.



TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Longitudinal tensile strength	19, -4	kN/m	UNE EN ISO 10319
Transversal tensile strength	17, -4	kN/m	UNE EN ISO 10319
Longitudinal elongation	60±20	%	UNE EN ISO 10319
Transversal elongation	60±20	%	UNE EN ISO 10319
Static puncture resistance (CBR)	2,5 -0.5	kN	UNE EN ISO 12236
Dynamic puncture resistance (cone)	10, +5	mm	UNE EN 13433
Characteristic aperture measurement	60 ± 5	µm	UNE EN ISO 12956
Water permeability perpendicular to the plane	0,12 -0,02	m/s	UNE EN ISO 11058
Durability		AÑOS	ANEXO B DE LA NORMA PLICABLE
Dangerous substances	NPD	-	-

ADDITIONAL TECHNICAL DATA

ADDITIONAL DATA	VALUE	UNIT	STANDARD
Compressive strength	250 ±20%	kN/m ²	UNE EN ISO 604
Water permeability perpendicular to the vertical plane	0,12 -0,02	m/s	UNE EN ISO 11058
Water permeability perpendicular to the horizontal plane	0,002 -0,0002	m ² /s	UNE-EN ISO 12958
Air volume between nodules	5,9	l/m ²	-
Temperature range	-30 a 80	°C	-
Nodules number	1907	-	-

ENVIRONMENTAL INFORMATION

PARAMETERS	VALUE	UNIT	NORM
Pre-consumer recycled content	20	%	-
Post-consumer recycled content	80	%	-
Manufacturing Location	Fontanar, Guadalajara (España)	-	-
Volatile organic compounds (VOC)	PND	-	-
Solar reflectance index (SRI)	PND	-	-

STANDARDS AND CERTIFICATION

Main regulatory

- EN 13252: Geotextiles and geotextile-related products. Characteristics required for use in drainage systems.

CE marking

- In accordance with standard EN 13252 for all high density polyethylene products manufactured by DANOSA.
- AENOR marking granted to DANODREN JARDÍN, in accordance with standard EN 13252.

Quality management

Company registration BUREAU VERITAS according to EN ISO 9001 granted to DANOSA manufacturing plant in Fontanar (Guadalajara).

Environmental management

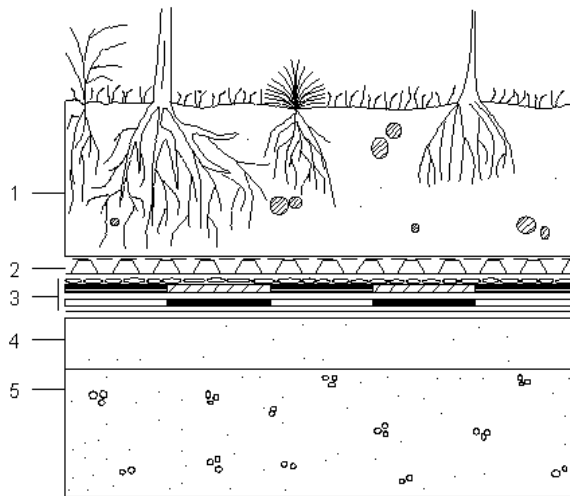
Company registration BUREAU VERITAS according to EN ISO 14001 granted to DANOSA manufacturing plant in Fontanar (Guadalajara).

SCOPE

1. Drainage, filtration and protection of the waterproofing in intensive green roofs for all type of buildings.

PRESENTATION

PRESENTATION	VALUE	UNIT
Length	20 ± 0,40	m
Width	2,10 ± 0,04	m
Roll surface	42	m ²
Rolls per pallet	6	rolls
Product Code	314076	-



ADVANTAGES AND BENEFITS

1. Quick and easy installation.
2. It provides a permanent drainage thanks to the chamber generated between the drainage sheet and the geotextile.
3. The geotextile fused to the nodules, absorbs and filters the water of the ground, avoiding the filling of the drainage system and facilitating the evacuation of the water towards the drains.
4. Due to the composition of the geotextile, polypropylene, DANODREN JARDÍN can be left uncoated temporarily in the job site without deteriorating its mechanical and hydraulic properties.
5. Resistant to breakage, impact and deformation.
6. Resistant to chemical agent of the soil. Rot.
7. DANODREN JARDÍN allows the transformation of traditionally concreted or asphalted surfaces into green spaces that positively influence in the urban microclimate.

INSTRUCTION FOR USE

Intensive green roofs

1. Surface and singular points must be uniform, clean, dry and free of foreign objects.
2. The support for DANODREN JARDÍN is extruded polystyrene (XPS), DANOPREN TR so a DANOFELT PY 200 polyester geotextile layer must be laid to avoid chemical incompatibility between materials. In case the roof is not insulated, the support should be a bituminous or synthetic waterproofing membrane with properties against root penetration.
3. DANODREN JARDÍN is placed with the geotextile upwards.
4. The geotextile layer has a width of 5 cm less than the drainage sheet to facilitate the overlap of roll with roll. To perform the overlap, the geotextile is detached 7 cm, exposing 12 cm of drainage sheet, where the overlap will be made with the following sheet.
5. Then the plant soil is extended, which will be placed directly above the geotextile layer
6. Execution of the garden manhole

INDICATIONS AND IMPORTANT RECOMMENDATIONS

1. DANODREN JARDÍN drains, protects and filters.
2. DANODREN JARDÍN does not waterproof, therefore, it does not replace in any case the waterproofing membrane or a antiroot barrier.
3. Appropriate precautions must be taken not to puncture the waterproofing during the placement of DANODREN JARDÍN.
4. It must be verified that the product is at the site with its original packaging, duly labeled with CE marking and in perfect conditions.
5. It is recommended to check the existence of Declaration of Performance.
6. It is recommended to check the existence of the voluntary quality mark.

HANDLING, STORAGE AND CONSERVATION

1. This product is not toxic or inflammable.
2. The product should be stored in a dry place protected from rain, sun, heat and low temperatures and upright position.
3. For further information, check the security data sheet.

WARNING

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

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