

DANOFELT PY 500

Non-woven bonded by needle punching geotextile of 500 (+10%;-15%) g/m² of polyester short fibre.



BBA 14/5118 (1)

DANOFELT PY 500 is a non-woven bonded by needle punching geotextile of 500 (+10%;-15%) g/m², composed of polyester short fibre. It has the CE trademark. It is used for waterproofing protection of roofs, underground constructions and for land separation and filtration.

Presentation

- Length (cm): 7000
- Width (cm): 220
- Thickness (mm): 3.8
- Product code: 710037

Technical Data

Concept	Value	Standard
In-plane water flow capacity (m ² /s)	4.00 Exp-6, -0.1 Exp-7	UNE EN ISO 12958
Density (kg/m ³)	131	-
Protection effectiveness (kN/m ²)	19.0 Exp3 -0.3 Exp3	UNE-EN 13719
Elongation at break longitudinal (%)	120 ±30	UNE EN ISO 10319
Elongation at transverse break (%)	120 ±30	-
Thickness a 2kPa (mm)	3.80, ±0.20	-
Medium mass (g/m ²)	500 (+10%;-15%)	UNE EN ISO 9864
Mass per unit area (nominal) (kg/m ²)	500	-

Concept	Value	Standard
Opening size (mm)	60, ±20	UNE EN ISO 12956
Dynamic drilling (cone drop) (mm)	0, +2	UNE EN ISO 13433
Water permeability (l/m ² /s)	0.02371, -0.005	UNE EN ISO 11058
Water permeability (m/s)	0.02371, -0.005	UNE EN ISO 11058
Longitudinal tensile strength (N / 5cm)	11	-
Tranversal tensile strength (kN/m)	11.0, -1.0	-
Transverse tensile strength (N / 5cm)	11	-
Hazardous substances	PND	-

Additional Technical Data

Concept	Value	Standard
Thickness at 200kPa (mm)	1.8, ±0.20	-
Thickness at 20kPa (mm)	3,0, ±0,20	UNE EN ISO 9863-1
Static punching (CBR) (kN)	1.8, -0.2	UNE EN ISO 12236

Standards and Certification

- It complies with the requirements of the Technical Building Code (CTE).
- Complies with CE marking requirements.

Scope

- As a drainage layer, facilitating the evacuation of water.
- As a filter layer, preventing the passage of small particles and clogging of the system.
- As a protective layer for sheets from mechanical damage and piercing.
- As a separating layer, avoiding contact between layers of different nature, preventing their mixing and guaranteeing the maintenance of their initial performance.

Advantages & Benefits

- Provides great mechanical protection.
- Increases the useful life of the elements it protects on site.
- High tensile strength.
- High resistance to piercing.
- Great durability.
- It maintains the mechanical and hydraulic properties of the materials it separates intact.

- Allows for adaptation to any type of geometry.
- Resistant to soil active substances and inclement weather.

Instruction for Use

Preparation of the substrate:

- The surface of the base substrate must be resistant, uniform, compact and dry.
- The singular points must also be prepared before starting the laying of the geotextile: chamfers or chamfers in meetings with vertical walls, reinforcements, joints and other singular points.

Laying the geotextile

- Once the ground or substrate has been levelled, the roll of DANOFELT PY 150 is laid. The second roll is then laid, leaving a minimum overlap of 20cm. Depending on the final application, it is recommended to fix the joint by stitching or stapling.
- The materials should be poured without damaging the geotextile. In the same way, the spreading of the different layers should be carried out in such a way that the spreading and compacting equipment does not circulate at any time on the surface of the geotextile, and always in such a way that the direction of advance of the spreading machinery of the upper layer does not affect the overlapping of the geotextile layers.

Indications and Important Recommendations

- When the geotextile has to be in contact with synthetic PVC waterproofing sheets, DANOFELT PY 300 or higher must be used.
- It is sensitive to UV rays, so it is necessary to coat it as soon as possible (maximum sun exposure time 1 week).
- This product may form part of a waterproofing system, so all the documents referred to in the Danosa Solutions Manual must be taken into account, as well as all the regulations and legislation that must be complied with in this respect.
- The circulation of machinery and construction vehicles over the geotextile is strictly forbidden in order to avoid mechanical damage or folds in the geotextile, which would impede the correct functioning for which it has been designed.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".
- Do not expose to direct contact with fresh concrete.
- Protect from rain, both in storage and once in place on site.
- Special attention must be paid to the execution of the singular points, such as parapets (meetings with vertical and emergent elements), drains, expansion joints, etc.
- It is recommended to preserve the material in its packaging and protected from the weather until use.
- According to tests exposed in the achievement of the CE marking of this product, it has a minimum durability of 25 years, covered and installed in soils with a pH between 4 and 9 at a floor temperature <25°C.

Warning

- Do not expose to direct contact with fresh concrete.

Handling, storage and preservation

- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product will be stored horizontally.

Notice

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