

ROOFTEX V

TECHNICAL DATA SHEET APTDS-E-113-01

DESCRIPTION

ROOFTEX V is a thermally bonded non-woven needle punched geotextile made of 100% polyester fibers, green colour, as separation, drainage and puncturing protection for building systems.

FEATURES

- Manufactured with 100% recycled PET preconsumer fibres, longitudinally and diametrically calibrated and curled.
- Biological resistance: resistant to bacteria and fungus. It doesn't contain any nutrients so it is not attacked either by rodents or termites.
- Reinforcement : provides resistance to the puncturing of the waterproofing membrane.
- Filtration and drainage : good water permeability, allows the passage of water, maintaining the fine soil particles.
- Separation : prevents mixing of particles from different soils. Prevents contact between noncompatible materials. Acts as a permeable barrier between materials with different structures

APPLICATIONS

ROOFTEX V 120 / 150 / 200:

- Used for "D" Drainage

ROOFTEX V 300 / 400 / 500:

- "F" (Filtration)
- "F+S" (Filtration and Separation)
- "F+S+D" (Filtration, Separation and Drainage)
- "P" (Protection).

STANDARDS AND CE MARKING

Manufactured according to the Quality Management System ISO 9001

ROOFTEX V 300 / 400 / 500: CE Mark N° 0099/CPR/A42/0093 – 0094 – 0095 – 0096 according to the following standards:

UNE EN 13249:2001, UNE EN 13250:2001, UNE EN 13251:2001, UNE EN 13252:2001, UNE EN 13253:2001, UNE EN 13254:2001, UNE EN 13255:2001, UNE EN 13256:2001, UNE EN 13265:2001

ROOFTEX V 120 / 150 / 200: CE Mark N° 0099/CPR/A42/0097, according to UNE EN 13252:2001.

PREVENTIVE MEASURES

Health, security and environment:

The product does not contain any dangerous substance and complies with health, security and environment requirements.

For further information please refer to the product Safety Data sheet.

Traceability:

The traceability of the product is assured by a production code on the package.

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APPLICATION

- The surface must be prepared in order to leave it flat before placing the geotextile and free from rubble or obstructions, in order to avoid damages during its placement.
- The placement of the geotextile doesn't need any setting out on site.
- The geotextile is placed loose, without tensions, free from folds or wrinkles. It must be placed in contact with the support trying to avoid any empty space in-between.
- The geotextile is spread over the lower layer, taking care of the continuity between sheets by stitching them, welding them, placing staples or overlaps (they will not be less than 10 cm). The joining together of the sheets must be indicated in the project.
- The geotextile is raised to the perimeters to cover the total height of the roof.
- While the geotextile is being placed, nobody should step or walk on it. Avoid passage of heavy machinery to avoid breaks or movements.

PRODUCTION STANDARDS

| | ROOFTEX V | | | | | | | |
|------------------|-----------|-----|-----|-----|-----|-----|-----|-----|
| | 120 | | 150 | | 200 | 300 | 400 | 500 |
| Width (m) | 1.1 | 2.2 | 1.1 | 2.2 | 2.2 | | | |
| Length (m) | 150 | | 125 | | 100 | 75 | 60 | 60 |
| Weight (kg) | 40 | | 41 | | 44 | 50 | 53 | 66 |
| Rolls per pallet | | | | | | | 9 | |

Store in the original packaging, protected from the outdoors till it is used.

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PROPERTIES

| | ROOFTEX V | | | | | | Test method |
|--|--|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------|
| | 120 | 150 | 200 | 300 | 400 | 500 | |
| Weight (g/m ²) - tol. ± 5% | 120 | 150 | 200 | 300 | 400 | 500 | - |
| Composition (%) - tol. ± 15% | 100% PES Green colour | | | | | | - |
| Thickness under load 2 kPa (mm) - tol. ± 15% | 1.21 | 1.42 | 1.76 | 2.44 | 2.9 | 3.4 | UNE EN ISO 9863-1 |
| DM Tensile strength (KN/m) - tol. ± 15% | 1.15 | 1.7 | 2.27 | 4 | 7.1 | 10 | UNE EN ISO 10319 |
| DT Tensile strength (KN/m) - tol. ± 15% | 1.35 | 1.77 | 2.81 | 4.89 | 8 | 11.7 | UNE EN ISO 10319 |
| DM Elongation to break (%) - tol. ± 15% | 25 | 25 | 30 | 35 | 40 | 45 | UNE EN ISO 10319 |
| DT Elongation to break (%) - tol. ± 15% | 30 | 30 | 40 | 40 | 50 | 55 | UNE EN ISO 10319 |
| Static puncturing (CBR) (N) - tol. ± 10% | 250 | 340 | 460 | 820 | 1600 | 2000 | UNE EN ISO 12236 |
| Dynamic puncturing (cope drop) (N) - tol. ± 20% | 45 | 40 | 35 | 27 | 20 | 15 | UNE EN ISO 13433 |
| Opening size (µm) - tol. ± 10% | 100 | 79 | 59 | 75 | 70 | 60 | UNE EN ISO 12956 |
| Water permeability (m/s) - tol. ± 10% | 63 · 10 ⁻³ | 53 · 10 ⁻³ | 44 · 10 ⁻³ | 43 · 10 ⁻³ | 43 · 10 ⁻³ | 43 · 10 ⁻³ | UNE EN ISO 11058 |
| Capacity of the water flow on the plane - tol. ± 10% | 4,5 · 10 ⁻⁷ | 9,7 · 10 ⁻⁷ | 3,2 · 10 ⁻⁷ | 1,69 · 10 ⁻⁷ | 174 · 10 ⁻⁷ | 179 · 10 ⁻⁷ | UNE EN ISO 12958 |
| Durability | Durability of minimal 5 years for floors with 4 < pH < 9 and T < 25 °C | | | | | | UNE EN ISO 12226 |
| Durability | Recover after 24 hours after placement | | | | | | UNE EN ISO 12224 |