

DRENTEX PROTECT PLUS

High strength drainage panel

May 2024

DESCRIPTION:

DRENTEX PROTECT PLUS is a high-strength drainage panel consisting of a high-density polyethylene (HDPE) core with a factory-laminated geotextile for installation over waterproofing membranes in most vertical and horizontal drainage applications.

When used in conjunction with SOPREMA's waterproofing products, the DRENTEX line of products provides first-rate protection against build-up of water pressure and humidity. The non-woven geotextile filters the water to prevent the soil from blocking the drainage, while the polyethylene dimples guide and evacuate the water.

KEY FEATURES:

- Simple and rapid installation
- Root resistant & rot-proof
- High resistance to compression
- Light load on structures
- Design allows more precise details

FIELD OF APPLICATION:

- Rooftops
- Plaza decks & terraces
- Planter boxes
- Retaining walls
- Foundations

PACKAGING:

SPECIFICATIONS	DRENTEX PROTECT PLUS
Density	500 g/m ²
Dimples height	7.5 mm
Roll dimensions	20m x 2m
Roll weight	24 kg
Rolls per pallet	6

PROPERTIES:

HDPE CORE		
Properties	Test Method	DRENTEX PROTECT PLUS
Compressive strength	-	120 kN/m ² ± 30
Density	EN ISO 9864	400 g/m ² ± 5%
Dimples height (at 2kPa)	EN ISO 9863-1	7.5 mm ± 1
Tensile strength (LxT)	EN ISO 10319	10 kN/m ² : 10 kN/m ²
Elongation at break (LxT)	EN ISO 10319	50% ± 25 : 55% ± 25

GEOTEXTILE		
Properties	Test Method	DRENTEX PROTECT PLUS
Density	EN ISO 9864	100 g/m ² ± 10
Tensile strength (LxT)	EN ISO 10319	6 kN/m ⁻¹ : 6 kN/m ⁻¹
Elongation at break (LxT)	EN ISO 10319	55% ± 30 : 60% ± 30
Static punching (CBR method)	EN ISO 12236	1000 N ± 115
Dynamic perforation (cone drop test)	EN ISO 13433	38 mm ± 6
Water permeability	EN ISO 11058	100 Mm/s ± 40
Opening size	EN ISO 12956	95 microns ± 35

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PROPERTIES (Continued):

DRAINAGE CAPACITY		
Properties	Pressure	DRENTEX PROTECT PLUS
Vertical drainage (i = 1)	At 20 kN/m ²	1.6 l/m ³ s
	At 50 kN/m ²	1.3 l/m ³ s
	At 100 kN/m ²	0.8 l/m ³ s
Horizontal drainage (i = 0.1)	At 20 kN/m ²	0.4 l/m ³ s
	At 50 kN/m ²	0.25 l/m ³ s
	At 100 kN/m ²	0.18 l/m ³ s
Horizontal drainage (i = 0.04)	At 20 kN/m ²	0.25 l/m ³ s
	At 50 kN/m ²	0.18 l/m ³ s
	At 100 kN/m ²	0.1 l/m ³ s

INSTALLATION PROCEDURE:

SUBSTRATE

- No work should be started until the substrate is firm, even, clean and free of loose materials or any construction debris on the surface.
- Substrate must have minimum 1% fall to ensure that water drains to drainage outlets.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

INSTALLATION

- The substrate must be firm, even, clean and free from loose materials or any construction debris on surface.
- Install DRENTEX PROTECT PLUS with the geotextile facing the backfill or soil retention system.
- DRENTEX PROTECT PLUS must be supported and follow the irregularities of the substrate.
- DRENTEX PROTECT PLUS can cover cracks and holes from 25 to 50 mm in width and depth. Cracks or holes in the substrate exceeding these measurements should be repaired with mortar, shotcrete or plywood (mechanically fastened to the substrate) prior to installing the drainage panel.
- DRENTEX PROTECT PLUS rolls are overlapped by unsticking 10 cm of geotextile mat from both edges, nesting the dimples, i.e. fitting one into the other, and then re-protecting with the unstuck geotextile mat.
- Fasten DRENTEX PROTECT PLUS using mechanical anchors adapted to the substrate and washers with a minimum diameter of 25 mm.
- At the top, DRENTEX PROTECT PLUS must be mechanically fixed by Equus Termination Bar. The profile Equus Termination Bar avoids contamination on the chamber created by the DRENTEX PROTECT PLUS.
- On the bottom of the wall it will be advisable to install a drainage pipe.
- Lastly, compact the surrounding soil to ensure optimum and correct drainage.

For complete information on product installation, please consult your Equus Representative.

STORAGE AND HANDLING:

Rolls must be stored in the delivery packaging, in a dry and protected environment.

STATEMENT OF RESPONSIBILITY:

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor is responsible for checking the suitability of products for their intended use.

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WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Spain
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
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Manufacturer NZBN	9429050312962