



New Plantex[®] RootProtector

The root barrier combining outstanding water permeability and high strength





The new Plantex® RootProtector is a strong, water-permeable root barrier suited to both vertical and horizontal applications. It is manufactured from continuous PP filaments that are spun and laid down as a web which is thermally and mechanically bonded at filament crossover points.

This bonding method gives a unique combination of properties that offer optimal resistance against root penetration, exceeding existing alternative woven or needle-punched solutions.

Improved benefits

- Increased static puncture resistance
- Higher permeability due to the large number of pores and the random pore-size distribution. This helps to ensure free flow of water in the soil and avoids hydrostatic pressure issues
- Excellent uniformity across the entire material surface – no weak spots where roots might penetrate
- Tested in accordance with CEN/TS 14416, as well as with plants such as Pyracantha which develop more aggressive roots

Applications

The prevention of root contamination of infrastructure base or drainage layers – whether vertical or horizontal – ensures that these remain free-draining throughout their working life.

Horizontal

- Cycle paths
- Forest roads
- Paths with unbound surfaces e.g. hiking trails, agricultural/temporary roads
- Green roofs (in conformance with national regulations)

Vertical

- Foundations
- Vertical drainage structures
- Rhizome containment (in combination with Plantex® Platinum)

Dimensions Plantex® RootProtector

2 x 100 m	4 x 100 m	5.2 x 100 m
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Other

- Protection of joints of subterranean infrastructure such as pipes, water/sewage collectors, cables, pools

Other benefits

- Easy to install in excavations and ditches
- Light in weight whilst offering excellent protection against root penetration or perforation
- Does not absorb water, which helps to prevent freezing in winter and helps to ensure easy handling in all weather conditions
- Easy to cut without fraying or irregular edges
- Pre-compression helps to ensure optimal balance between roll diameter and surface coverage
- Available in both small and large roll sizes – large areas can be covered with fewer overlaps and faster installation

Properties	Standard	Unit	Value
Descriptive properties			
Area Weight	EN ISO 9864	g/m ²	260
Thickness under 2 kN/m ²	EN ISO 9863-1	mm	0.65
Mechanical properties			
Tensile strength	EN ISO 10319	kN/m	20
Elongation at break	EN ISO 10319	%	50
Tear resistance	ASTM D4533	N	400
Static puncture resistance	EN ISO 12236	N	2900
Dynamic puncture	EN ISO 13433	mm	22
Hydraulic properties			
Water Permeability VI _{H50} *	EN ISO 11058	mm/s	12
Opening size O _{90W} *	EN ISO 12956	µm	75

* Note: The values correspond to average results obtained in our laboratories and outside institutes and are indicative. The right is reserved to make changes at any time without notice.

- Avoid any contact of the product with any kind of pesticides, especially herbicides.
- Visit www.plantex.dupont.com for specific installation instructions for Plantex® RootProtector.
- DuPont™ has taken meaningful actions to limit the environmental impact of its Plantex® products on the environment. Find more via www.plantex.dupont.com/sustainability.

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