

PL 500 protection mat

Part No.: 1101



Application area

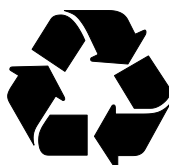
The PL 500 is part of our PL protection mat range. It is primarily used to serve protection purposes in a green roof build-up, i.e., to guard the root barrier or the root-resistant waterproofing from physical damage. An overlapping of at least 100 mm is required between the adjacent protection mats. Openings must be cut in the protection mat above the roof outlets.

Benefits

- ☑ high robustness class: GRK4
- ☑ resistant to PVC, bitumen, and polystyrene
- ☑ resistant to acids and alkalis
- ☑ made of completely recycled high quality polyester fibres (PET)
- ☑ rot-proof
- ☑ complies with FLL - Guidelines for the Planning, Execution and Upkeep of Green-roof sites 5.3 / 2002

Technical data

Material	100 % recycled rotproof synthetic polyester
Thermal treatment	Both sides
Robustness class	GRK4
Weight per unit area (EN ISO 9864)	500 g/m ²
Tensile strength (EN ISO 10319)	
warp (MD)	10 kN/m
weft (CMD)	15 kN/m
Elongation at break (EN ISO 10319)	
warp (MD)	45 %
weft (CMD)	40 %
CBR puncture (EN ISO 12236)	3 kN
Pore size, O ₉₀ (EN ISO 12956)	0.079 mm
Water permeability normal to the plane V _{IH50} (EN ISO 11058)	50 l/m ² ·s
Width / length / area of roll	2 m / 50 m / 100 m ²
Weight / diameter of roll	50 kg / 41 cm
Colour	Multi-coloured



Specification suggestion

ArchiGreen® PL 500 is needle punched felt, thermally treated on both sides, made of completely recycled high quality polyester fibres (PET) and falls under GRK4 robustness class. It provides mechanical protection to the root barrier and waterproofing membrane. Surface weight: 500 g/m²; thickness EN ISO 9863-1: 2.5 mm; CBR test EN ISO 12236: 3 kN; tensile strength MD/CMD EN ISO 10319: 10/15 kN/m, elongation at break MD/CMD: 45/40%; pore size EN ISO 12956: d_{90%} = 0.079 mm; water permeability EN ISO 11058: 50 l/m²s; laid with an overlap of 100 mm. Complies with FLL guidelines 5.3 / 2002.

Installation example

