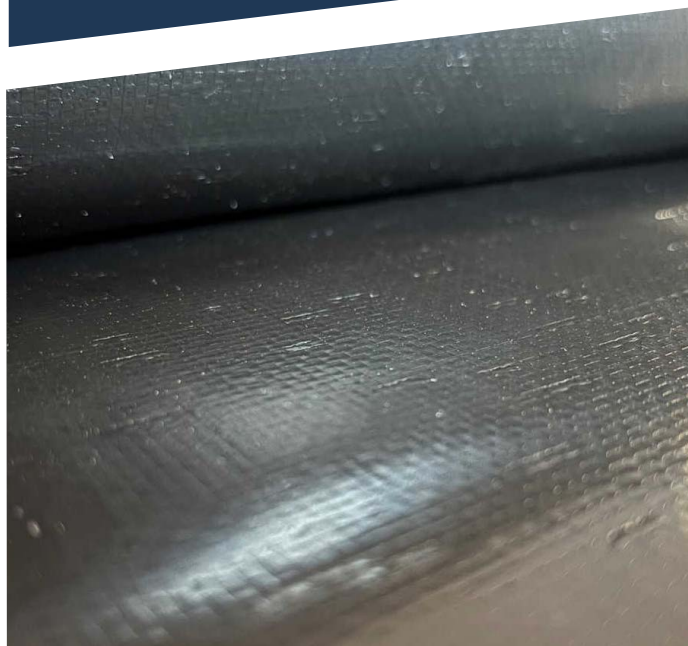


PermaSEAL^{PRO} Root Barrier



PermaSEAL PRO Root Barrier membrane is a high-performance, multi-purpose, coated woven geotextile.

UV stabilised and tough, it forms a highly effective root protection layer for use in extensive and intensive green roofing. The membrane also offers protection for structures and services against tree root damage, along with invasive plants such as Japanese Knotweed, Giant Hogweed, Bamboo and Mares Tail.

PermaSEAL[®] PRO Root Barrier membrane achieves extreme puncture resistance due to a triple-coated build-up. The barrier has two woven layers of polyethylene, with a tough thermoplastic coating of low-density polyethylene (LDPE) sandwiched between them and then a further LDPE coating on each external surface.

USES

This green roof root barrier is suitable for both pitched and flat, intensive and extensive systems. Intensive roofs usually require a root protection and protection fleece layer to protect from mechanical damage during the ongoing upkeep and maintenance of the living roof.

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INSTALLATION

The root barrier membrane is laid out over the waterproofing layer (in green roof applications) and under the specified PermaSEAL[®] PRO Green Roof Drainage & Storage membrane. The 1m or 2m wide strips can be cut to length using a sharp pair of scissors. Overlap sections of the membrane by a minimum of 150mm. Seal over the face of the overlap joint with PermaSEAL[®] Overtape 300mm. For particularly aggressive roots in some intensive green roof applications, it's advisable to seal between the overlap joint with PermaSEAL[®] Jointing Tape, before the PermaSEAL[®] Overtape 300mm is applied. This provides additional protection.

Perforations through the root barrier for service penetrations that cannot be avoided at design stage, should be sealed using PM Power Fix and/or PermaSEAL[®] Corner Strip.

PERMASEAL [®] PRO ROOT BARRIER	PRODUCT TECHNICAL DETAILS
Membrane	Polyethylene
Geotextile	Woven with triple coated LDPE film
Colour	Black
Weight	365g/m ²
Tensile strength	md 34kN/m cd 31kN/m [EN ISO 10319]
Elongation	md 25% cd 20% [EN ISO 10319]
Hydrostatic resistance	2,107 kPa [ASTM D751-19]
Puncture resistance	4,500N [EN ISO 12236]
Roll length	25m
Roll width	1m or 2m
Thickness	0.5mm

FEATURES

- Tough and durable, puncture-resistant root barrier (4,500N [EN ISO 12236])
- Passed root test (DD CEN/TS 14416:2005)
- Triple coated and twin reinforced layers thermally bonded
- Highly resistant to natural acids, alkalis, bacteria and fungi
- Easy to cut and lightweight to handle
- High resistance to stress and cracking