

Safeguard Root Barrier

Root Barrier for Green Roof Construction



Description

Protection of a roof's waterproof layer from roots in Green Roof applications is important for the longevity of the roof system. If the waterproof layer doesn't already have root-resistant qualities then a root barrier should be introduced. In these situations Safeguard Root Barrier can be installed on top of the primary waterproofing system to provide a suitable root barrier.

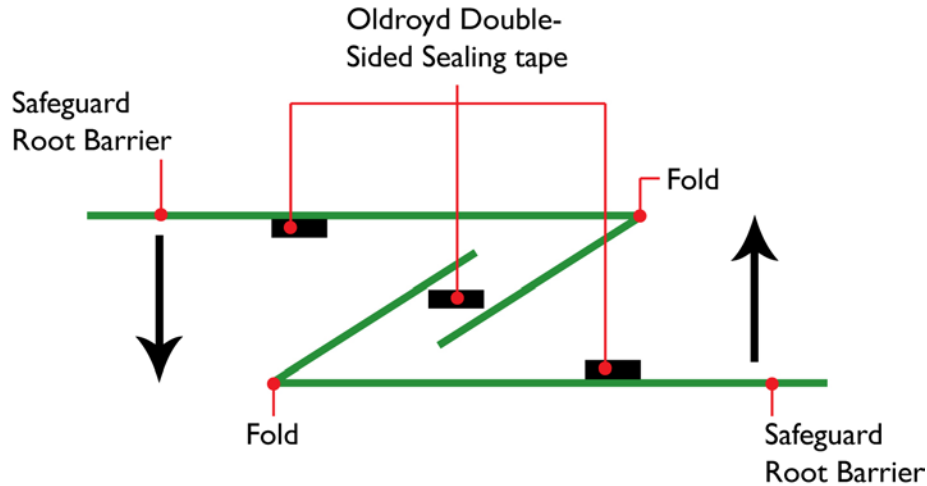
In addition to providing a root barrier layer for green roofs, Safeguard Root Barrier can also be used to provide efficient protection against invasive root growth for urban infrastructures - e.g. piping, pavements, paved areas, roads, water and sewage networks, cabling etc...

Benefits

- Based on a DuPont™ Xavan® fabric with an impenetrable, smooth green coating on one side
- Efficiently prevents rhizome propagation
- Easy and quick to install
- Rot-resistant in soil
- Completely recyclable (100% Polypropylene)

Joint Detail

A “triple” sealed joint using Oldroyd Double-Sided Sealing Tape needs to be made when joining sections of Safeguard Root Barrier as shown in the diagram below:



Roll Size

Safeguard Root Barrier is cut from 2 metre wide rolls and sold in 1 metre lengths - i.e. each metre section measures 2 square metres. A full roll measures 2x25m (50m²)

Safeguard Root Barrier Properties

Property	Standard	Value/unit
Mass per unit area	EN ISO 98	325 g/m
Thickness	EN ISO 9863-1	0.8 mm
Tensile strength	EN ISO 10319	22 kN/m
Elongation at max. strength	EN ISO 10319	50 %
Tear strength	ASTM D4533-91	60 kg
Puncture	ASTM D4833 8mm EN ISO 12236 50mm	580-3500N
Dynamic puncture	EN ISO 13433	12 mm

Precautions

Safeguard Root Barrier should be stored out of direct sunlight. It should be covered with subsequent green roof layers as soon as possible after laying (maximum two weeks) to protect against ultra-violet degradation.