Shieldproof AR

Anti Root Waterproofing Membrane



1 * 10 m/ roll

140 - 160 ℃

Not perforated at 25 kg (L4)

Description

Shieldproof AR is a torch-applied waterproofing membrane, treated to resist plant root penetration and designed for use in planted roofs.

Uses

- Areas where the plantation can damage the waterproofing layers such as:
- Roof gardens.
- Top of underground garages.
- Green oasis in houses.

Characteristics/ Advantages

- Excellent elasticity.
- Plant root resistance.
- Rot resistant.
- Flexible at low temperatures.
- Resistance to ageing.
- Good resistance to acids, sulphates and chlorides.
- High puncture and tear resistance.
- High dimensional stability.

Application Instructions

- To fix the sheet to the substrate, use a propane gas burner to melt off the polyethylene film and a thin layer of Bitumen while unrolling and laying the membrane.
- Side laps 100 mm and end laps 150 mm.
- The membrane can be applied onto the vertical walls and must extend at least 10 cm above the top level of the soil to ensure that no overflow of irrigation water passes behind the waterproofing layer.

Typical Properties

Softening Point (ASTM D36)

Dimension

Thickness (ASTM D5147) 4-5 mmWeight per roll 48 or 58 mmReinforcement Non-woven Polyester $180 \text{ g/}m^2$ Penetration of coating (ASTM D5) 10-30 dmm

Cold Pliability (BS EN 1109) No cracking at - 10°C

Tensile Strength
Long. 900 N/5 cm
Transv. 600 N/5 cm

Ultimate Elongation
Long. 40%
Transv. 45%

Tear Strength
Long. 450%
Transv. 350%

Static Indentation Resistance

Water Absorption (ASTM D5147) < 1%

Wear Pressure Resistance No leakage at 1000 mm water head at 24 hours

Water Vapor Transmission $0.20 \text{ g/}m^2 \text{ per day}$

Resistance to UV No deterioration

Chemical Resistance To alcohol, salt solutions, dilute acids and alkalis

