

DonRoot Barrier

Anti-root protection membrane for Garden Roofs and Planters



Description

DonRoot Barrier is a modified bituminous anti-root membrane, specially treated to resist the plant root penetration and designed for use in planters and roof gardens. To be used as a root barrier and protection layer for the AquaSure waterproofing membrane.

Applications

- ▲ Roof gardens.
- ▲ Planters.
- ▲ Top of underground garages.

Advantages

- ▲ Plant root resistance.
- ▲ Rot resistant.
- ▲ Excellent resistance to atmospheric agents and chemical attacks.
- ▲ High flexibility at low temperatures.
- ▲ Resistance to aging.
- ▲ High puncture and tear resistance.
- ▲ Good resistance to acids, sulfates and chlorides.
- ▲ High dimensional stability.
- ▲ High malleability to accommodate difficult applications as well as structural movements.

Method of Use

DonRoot Barrier is applied over the hot applied AquaSure membrane.

The following are general guidelines for installation:

Alignment

Unroll DonRoot Barrier rolls and check for alignment before bonding. Overlaps should be minimum 100 mm along the sides and not less than 150 mm at roll ends. Reroll DonRoot Barrier and prepare for bonding.

Bonding

Unroll the DonRoot Barrier membrane over the freshly hot applied AquaSure membrane and press firmly in order to achieve the highest bond. Alternatively, a propane gas torch might be used to heat the underside of DonRoot Barrier membrane until the clear polyethylene film is burned away and the polymeric compound begins to melt.

Technical Properties:

Dimension:	1 x 10 m/ roll
Thickness: UEAtcMOAT 30	4 mm
Weight per roll: UEAtcMOAT 30	48 or 58 kg
Reinforcement: BS 747	Nonwoven spunbonded polyester & fiberglass 180 g/ m ²
Penetration: ASTM D5	20 ± 10 dmm @ 25°C
Softening point: ASTM D36	150°C
Cold pliability: UEAtcMOAT 27	No cracking at -10°C
Tensile strength: UEAtcMOAT 30 ASTM D146	Longitudinal > 800 N/ 5 cm Transversal > 600 N/ 5 cm
Ultimate elongation: UEAtcMOAT 30 ASTM D146	Longitudinal > 40% Transversal > 45%
Lap joint strength: UEAtcMOAT 27	Longitudinal > 850 N/ 5 cm Transversal > 650 N/ 5 cm
Heat resistance: UEAtcMOAT 30	No flowing after 2 hr @ 100°C
Static indentation resistance: UEAtcMOAT 27	Not performed at 25 kg (Class L4)
Water pressure resistance: UEAtcMOAT 27	No leakage at 1000 mm water head/24 hr
Resistance to chemicals: ASTM E96-90	Resistant to alcohol, salt solutions, dilute acids and alkalis

Note: The technical data shown here are the average values of tests, measurements and trials, carried out on the DonRoot Barrier Waterproofing membranes. The data may be changed, improved modified by DCP without prior notice.

DonRoot Barrier

Packaging

DonRoot Barrier is available in 1 x 10 meter roll size, in thickness of 4 mm.

Storage

All roofing should be inspected periodically. Check the condition of the protective elements. Accidentally damaged or worn areas can be patched by using the same material.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Installation works of bituminous membranes should be executed in well ventilated areas.

Use gloves and keep flames directed away from body and flammable materials.

For further information refer to the Material Safety Data sheet

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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