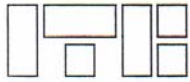


Duo 4 HT Slates/F C180

Landscape



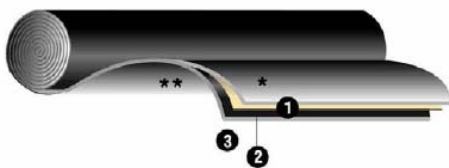
Technical approvals: BBA nr. 98/3537/C, BUTgb, ATG 1924, CTG 056 DIN 4062

Basic Uses:

For waterproofing of roof gardens, planter boxes and landscape areas. The membrane is root resistant. It is recommended to use in combination with a drainage layer and geo-textile on top. To be used with Duo Primer and installed by torch-on method.

System:

Pre-formed torch-on membrane manufactured in an ISO 9001 controlled factory in Antwerp, Belgium. Designed to resist root penetration, so it can be used without an extra protection screed. All materials can be delivered with a certificate of origin.



- * Upper finishing: colour slates
- 1. Upper coating in APAO modified bitumen.
- 2. Composition armature consisting of polyester and glass reinforcement.
- 3. Under coating in SBS modified bitumen
- ** Under finishing: polyethylene foil

Composition:

Duo 4 HT Slates/F C180 Landscape is a flexible torch-on waterproof membrane. The upper coating consists of a mixture of penetration bitumen, modified with Amorphous Poly-Alpha-Olefin (APAO). The under coating consists of a mixture of penetration bitumen, modified with Styrene-Butadiene-Styrene (SBS). The bitumen-coating is mixed with root-resistant products. This membrane is reinforced with a thermally bonded layer of non-woven polyester of min. 175 g/m², reinforced with a glass fibre mesh of 8 g/m². The upper surface is finished with coloured slates, pressed mechanically into the bitumen. The under surface is finished with a polyethylene foil.

Warranty:

The client will receive a combined warranty on product and installation from the specialist applicator and manufacturer. The product warranty may be insurance backed by AG-FORTIS under policy number 99.075.400

Advantages:

- ◆ High-tech quality waterproofing membrane especially designed for different climate areas.
- ◆ The product is root resistant and remains tough in high temperature conditions.
- ◆ Duo remains flexible in colder temperatures and is easy to work with.
- ◆ The membrane delivers a strong and flexible waterproofing system for your building investment, with a life expectation of at least 20 years. (BBA page 4, 13.1)
- ◆ The waterproofing does not require any additional fixed screed topping in your landscape area. This create less weight and easy maintenance of the waterproofing.

Surface Preparation:

- ◆ All surfaces need to be cured and dry before application.
- ◆ Surfaces need to be smooth and clean, free of oil and grease.
- ◆ All necessary details like drains and down-pipes need to be addressed before the laying of waterproofing membrane starts.
- ◆ Co-ordination with specialist applicator concerning these details is important.

Method Statement:

The prepared substrate receives Duo Primer, a solvent based bitumen primer. When the primer is dry, Duo Landscape is torched fully-bonded to the substrate commencing from the lowest level (e.g. the drain). The membrane is cut to shape by means of a knife. Specialist tools like membrane trowel, overlap-torch and overlap roller may be required in some conditions to ensure a perfect finish. The Duo system can only be installed by trained Duo Applicators, who hold Equus Certified Applicator status

When Duo Landscape is used in 2 layer work, as on plywood, the first layer (base sheet) is either Deboplast 2.5 T/F (APP) or Debovix 2.5 T/F (SBS) depending on site requirements

Packaging:

Roll size: 1x8 m
Roll weight: +/- 38.4 kg
Number of rolls on a pallet: 23





Technical Data:

Physical properties	Average values	Test methods
Total thickness	4.3 mm	UEATC A, BDA PO1
Reinforcement	Non-woven polyester of min. 175 g/m ² , reinforced with a glass fibre mesh of 8 g/m ²	UEATC A, BBA PO1
Ring & Ball	APAO: 155°C - SBS: 120°C	ASTM D 36-84, NBN T52-031, UEATC G
Coating penetration at 60°C	APAO: 53 dmm	MOAT 30:6M
Tensile strength (N/50mm)	Longitudinal: 1101 - Transversal: 702 N	ASTM D 412, NBN B46-201, MOAT 30:6C, UEATC C
Elongation	Longitudinal: 65% - Transversal: >55%	ASTM D 412, MOAT 30:6C
Puncture resistance	Ø 10 mm	SP 2190
Max. load membrane penetration	250 N	SP 2190
Water vapour permeability	0,118 g/m 24 hours	BS 3177
Cold flexibility	APAO -20°C / SBS -25°C	ASTM D146, BDA PO6
UV resistance	100%	ASTM 653-77, BDA P14
Root resistance	Root resistant	DIN 4062

Health & Safety:

Duo Bitumen Primer is solvent-based and must be used with adequate ventilation. Remove all naked flames and sources of ignition. Adequate ventilation is required to minimise exposure to bitumen fumes during the torching process. Material Safety Data Sheet (MSDS) must be read and understood prior to use of product.

Storage:

Duo rolls should be stored in a dry area, always in an upright (vertical) position. Do not lay rolls flat (horizontal) when storing.

Other Duo Products:

Name

Duo 4 HT SLATES/F C180

Duo 4 HT SLATES/F C180 AERO

Duo 4 HT SLATES/F C180 MECANO

Duo 4 HT SLATES/F C180 NO FLAME

Duo 4 HT GRAN/F C180 BRIDGES & TUNNELS

Duo 4 HT SLATES/F C180 FC (FIRECARE)

Benefits

Standard Duo roofing membrane with a choice of finish colours.

One layer self venting waterproofing system.

Mechanical fastening system.

For safe installations without fire. Cold adhesive applied.

For areas with hot asphalt topping. (e.g. car park deck)

Fire retarding waterproofing system.

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