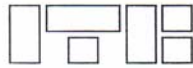


# Duo 4 HT Slates/F C180 Mecano

Wind Uplift



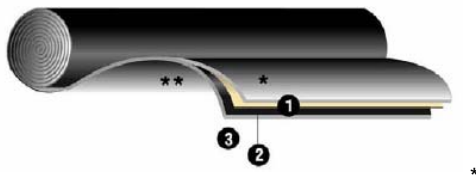
Technical approvals: BBA nr. 98/3537/C, BUTgb, ATG 1924, SITAC 1112/97, DS/INSTA 413

## Basic Uses:

For waterproofing of different locations including concrete and plywood flat roofs, podium decks, balconies and terraces. For exposed and protected areas in your building. For new and renovation application with self-venting capacity. Resistant to strong wind uplift.

## System:

Pre-formed torch-on membrane manufactured in the De Boer ISO 9001 controlled factory in Antwerp, Belgium. The membrane is designed to be mechanically fastened to the roof. The system is 100% self-venting. All materials can be delivered with a certificate of origin.



Upper finishing: coloured 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 Mecano** is a flexible 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). This membrane is reinforced with a special designed inlayer of non-woven polyester of min. 175 g/m<sup>2</sup>, reinforced with a glass fibre mesh of 8 g/m<sup>2</sup>. The upper surface is finished with coloured slates, pressed mechanically into the bitumen. The under surface is finished with a polyethylene foil. Overlap width is 130mm.

## 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 UV-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 product has been tested and is certified on its mechanical fastening capacity.

## 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 skylights, drains and downpipes need to be addressed before the laying of waterproofing membrane starts.
- ◆ Co-ordination with specialist applicator concerning these details is important.

## Method Statement: Mechanical Fixing

The prepared substrate receives Duo Primer, a solvent based, bitumen primer, only at details and vertical areas. The Duo membrane is stretched on top of the substrate or insulation commencing from the lowest level (e.g. the drain). A hole is provided at the overlap into the substructure. The membrane is mechanically fastened by means of a screw or a concrete nail through a purpose designed fixing plate. The overlaps are hot-welded. The bitumen lines are covered by coloured slates, that are mechanically pressed into the hot bitumen. This delivers an aesthetic finish. 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 Mecano 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 <sup>2</sup> , reinforced with a glass fibre mesh of 8 g/m <sup>2</sup>	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 N - Transversal: 702N	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 -15°C / SBS -20°C	ASTM D146, BDA PO6
UV resistance	100%	ASTM 653-77, BDA P14

### 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	Benefits
DUO 4 HT SLATES/F C180	Standard Duo roofing membrane with a choice of finish colours
DUO 4 HT SLATES/F C180 AERO	One layer self-venting waterproofing system.
DUO 4 HT SLATES/F C180 NO FLAME	For safe installations without fire. Cold glue applied.
DUO 4 HT GRAN/F C180 BRIDGES & TUNNELS	For areas with hot asphalt topping. (e.g. car park deck)
DUO 4 HT SLATES/F C180 FC (FIRECARE)	Fire retarding waterproofing system.
DUO 4 HT SLATES/F C180 LANDSCAPE	Anti-root system for landscape areas, roof-gardens.

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