

Duo 4 HT Slates/F C180 FC

Firecare



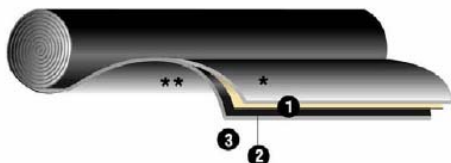
Technical approvals: BBA nr. 98/3537/C, BUTgb, ATG 1924, SITAC 1112/97, DS / INSTA 413

Basic Uses:

For waterproofing of different locations including concrete flat roofs, podium decks, balconies and terraces. For exposed and protected areas in your building. For new and renovation application with high demands on fire-safety.

System:

Pre-formed torch-on membrane manufactured in the De Boer ISO 9001 controlled factory in Antwerp, Belgium. All materials can be delivered with a certificate of origin. The system is internationally certified as a fire retarding element on the roof.



- * 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: polypropylene fleece

Composition:

Duo 4 HT Slates/F C180 FC (Firecare) 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 specially designed inlayer with a fire resistant screen of min. 210 g/m², consisting of non-woven polyester, reinforced with a glass fibre scrim. 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 during the warranty period.

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.
- ◆ High resistance to thermo-oxidative ageing.
- ◆ Fast application due to SBS under-coating.
- ◆ The product has been tested and is certified on its fire-retarding 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 down-pipes need to be addressed before the laying of waterproofing membrane starts.
- ◆ Co-ordination with specialist applicator concerning these details is important.

Method of Statement: Torch-on Application

The prepared substrate receives a solvent based, bitumen primer. When primer is dry, Duo membrane is torched fully-bonded to the substrate commencing from the lowest level (e.g. drain). The membrane is cut to shape by means of a knife. The bitumen lines are covered by covered slates, that are mechanically pressed into the hot bitumen. This delivers an aesthetical 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.

Packaging:

Roll size: 1x8 m
Roll weight: +/- 38.4 kg
Number of rolls on a pallet: 20





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 grill of 8 g/m ²	UEATC A, BBA PO1
Ring & Ball	APAO: >150°C - SBS: >120°C	ASTM D 36-84, NBN T52-031, UEATC G
Coating penetration at 60°C	APAO: 70-130 - SBS: 90-160	ASTM D5-83, NBN T52-030
Tensile strength (N/50mm)	Longitudinal: 1000 - Transversal: 880N	ASTM D 412, NBN B46-201, BDA PO8, UEATC C
Elongation	Longitudinal: > 50% - Transversal: >50%	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

Storage:

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

Name

Duo 4 HT SLATES/F C180
Duo 4 HT SLATES/F C180 AERO
Duo 4 HT SLATES/F C180 MECANO
Duo 4 HT GRAN/F C180 BRIDGES & TUNNELS
Duo 4 HT SLATES/F C180 LANDSCAPE
Duo 4 HT SLATES/F C180 NO FLAME

Benefits

Standard Duo roofing membrane with a choice of finish colours
One layer self-venting waterproofing system.
Mechanical fastening system.
For areas with hot asphalt topping. (e.g. car park deck)
Anti-root system for landscape areas, roof-gardens.
For safe installations without fire. Cold glue applied.

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