

Duo 4 HT Gran/F C180 Bridges & Tunnel



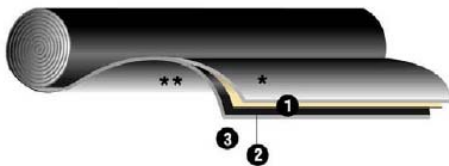
Technical approvals: BBA nr. 98/3537/C, BUTgb, ATG 1924, CTG 056

Basic Uses:

For waterproofing of different locations including concrete flat roofs, podium decks, balconies and terraces. For exposed and protected areas in your building. Especially designed with a vapour distribution layer, to prevent vapour bubbles under the waterproofing.

System:

Pre-formed torch-on membrane manufactured in an ISO 9001 controlled factory in Antwerp, Belgium. For special roof conditions with trapped moisture or high humidity contents. 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 Gran/F C180 Bridge & Tunnel is a flexible waterproof membrane. The upper coating consists of a mixture of penetration bitumen, improved with Amorphous Poly Alpha Olefins (APAO). The under coating consists of a mixture of penetration bitumen. The underside of the membrane has a pattern pure Styrene-Butadiene-Styrene (SBS) strips (width 65mm, thickness 0.8mm). The connecting of the membrane is reinforced with a thermally bounded layer of non-woven polyester of min. 175 g/m², reinforced with a glass fibre grill 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 of the specialist applicator and manufacturer. The product warranty is insurance backed by AG-FORTIS under policy number 99.075.400

Advantages:

- ◆ High-tech quality waterproofing membrane especially designed for different climate areas.
- ◆ The produce is UV resistant and stays hard in high temperature conditions.
- ◆ Duo stays flexible in colder temperatures and is easy to work with.
- ◆ The membrane delivers a strong and flexible waterproofing system to your precious investment, with a life expectation of at least 20 years. (BBA page 4, 13.1)
- ◆ It offers a waterproofing and vapour distribution layer in one product.

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, bituminous primer. When the primer is dry, Duo membrane 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. 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, with certification from the factory in Belgium.

Packaging:

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

Approvals:

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



Name

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 & TUNNEL
 Duo 4 HT SLATES/F C180 FC (FIRECARE)
 Duo 4 HT SLATES/F C180 LANDSCAPE

Benefits

One layer anti-bubble waterproofing system.
 Mechanical fastening system.
 For safe installations without fire. Cold glue applied.
 For areas with hot asphalt topping. (e.g. car park deck)
 Fire retarding waterproofing system.
 Anti-root system for landscape areas, roof-gardens.

Technical Data

Total thickness
 Reinforcement
 Ring & Ball
 Coating penetration at 60°C
 Tensile strength (N/50mm)
 Elongation
 Puncture resistance
 Max. load membrane penetration
 Water vapour permeability
 Cold flexibility
 UV resistance

Average values

4.3 mm
 Non-woven polyester of min. 175 g/m²,
 reinforced with a glass fibre grill of 8 g/m²
 APOA: 155°C - SBS: 120°C
 APAO: 53 dmm
 Longitudinal: 1101 - Transversal: 702 N
 Longitudinal: 65% - Transversal: >55%
 Ø 10 mm
 250 N
 0,118 g/m 24 hours
 APAO - 20°C - SBS - 25°C
 100%

Test methods

UEATC A, BDA PO1
 UEATC A, BBA PO1
 ASTM D 36-84, NBN T52-031, UEATC G
 MOAT 30:6M
 ASTM D 412, NBN B46-201, MOAT 30:6C,
 UEATC C
 ASTM D 412, MOAT 30:6C
 SP 2190
 SP 2190
 BS 3177
 ASTM D146, BDA PO6
 ASTM 653-77, BDA P14

Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214 Fax 03 578 0919
Email: admin@equus.co.nz
Website: www.equus.co.nz