

COMPOSITION

Synthetic membrane of plasticised PVC manufactured by coextrusion which enables the production of a single layer membrane, each of the two surfaces being a different colour.

This means that any accidental holes or tears in the material which may occur to the upper white surface during laying, become immediately visible as the black of the lower surface shows through. Manufactured in UNI EN ISO 9001:2000 (Quality System) and UNI EN ISO 14001:2004 (Environmental System) certified plant. Laying by installers approved by Flag S.p.A.

Finishing and accessories with elements manufactured and approved by Flag S.p.A.

FEATURES

- Signal layer
- High mechanical resistance
- Resistance to the action of running water
- Resistance to root penetration
- Resistance to low temperatures
- Resistance to eddy currents
- Resistance to bursting

AREA OF USE

FOUNDATIONS/TUNNELS

- Humidity screen of foundations
- Natural and artificial tunnels

Membrane which is in accordance to the standards  **ROOFCOLLECT®**
Recycling System for Thermoplastic Membranes

PHYSICAL-CHEMICAL PROPERTIES

	FLAGON TUNNEL 200	FLAGON TUNNEL 300	Testing method
Thickness (mm)	2,0	3,0	UNI EN 1849 - 2
Weight (kg/m ²)	2,72	4,08	UNI EN 1849 - 2
Tensile strenght (hourglass test tube) (N/mm ²)	≥ 12	≥ 12	UNI EN ISO 527 - 3
Elongation to break (hourglass test tube) (%)	≥ 220	≥ 220	DIN EN ISO 527 - 3
Resistance to impact strength (mm)	≥ 1100	≥ 1800	uni en 12691
Cold bending (°C)	≤ - 20	≤ - 20	UNI EN 495 - 5
Hydrostatic pressure resistance (6 hours at 0,5 MPa)	waterproof	waterproof	UNI EN 1928 meth. B
Root resistance	no penetration	no penetration	DIN 4062
Resistance to tearing (N/mm)	≥ 50	≥ 50	UNI EN 12310 - 2
Tear resistance (N/mm)	≥ 35	≥ 35	ISO 34 specimen fig. 2
Resistance to static punching (CBR) (N)	≥ 2000	≥ 3000	UNI EN ISO 12236
Resistance to oxidation - tensile strenght variation (%)	< 25	< 25	UNI EN 14575

PRODUCTION STANDARD

Thickness	2,0 mm	3,0 mm
Width	2,10 m	2,10 m
Length	20 m	20 m
Colour	Light green black	

ACCESSORIES SYSTEM

- FLAGON PVC disc for tunnel lining
- FLAGON PVC injection valve
- FLAGON PVC compartment joint (W4 - W6)
- Prefabricated accessories
- SALDAMAX 2000 - welding machine

Due to its formulation, the liner is NOT subject to the requirements set forth in the EEC 79/831 regulation on dangerous substances. If the product should be disposed of as waste, we recommend sending it to an authorised landfill site or to an incinerator equipped with post-combustion chamber and fume washing system.

