



# FLAGON SV

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## COMPOSITION

Synthetic membrane of plasticised PVC with a layer of glass fibre (50 g/m<sup>2</sup>) inserted for dimensional stability.

Manufactured in UNI EN ISO 9001:2000 (Quality System) and UNI EN ISO 14001:2004 (Environmental System) certified plant.

Resistant to weathering and ultraviolet rays. UEAtc certified.

Laying by installers approved by Flag S.p.A.

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

## FEATURES

- Resistance to weathering and ultraviolet rays.
- No dimensional shrinkage
- Will not rot
- Resistance to puncturing

- Adaptability to structural movements
- Flexibility to low temperatures
- Vapour permeability

## AREA OF USE

### ROOFING

- Movable Ballast System:
  - horizontal surfaces without pedestrian traffic ballasted by gravel
  - horizontal surfaces with pedestrian traffic ballasted by prefabricated square concrete slabs
  - inverted roof
  - sandwich roof
  - vertical details
- Mechanical fastening system:
  - vertical details

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

## PHYSICAL-CHEMICAL PROPERTIES

	FLAGON SV 120	FLAGON SV 150	FLAGON SV 180	FLAGON SV 200	FLAGON SV 240	Testing method
Thickness (mm)	1,2	1,5	1,8	2,0	2,4	UNI EN 1849-2
Weight (Kg/m <sup>2</sup> )	1,50	1,80	2,15	2,40	2,90	UNI EN 1849-2
Tensile strength (rectangular test specimen) (N/mm <sup>2</sup> )	≥ 9,0	≥ 9,0	≥ 9,0	≥ 9,0	≥ 9,0	UNI EN 12311 - 2
Elongation to break (rectangular test specimen) (%)	≥ 200	≥ 200	≥ 200	≥ 200	≥ 200	UNI EN 12311 - 2
Tear resistance (N)	≥ 110	≥ 135	≥ 160	≥ 170	≥ 200	UNI EN 12310 - 2
Resistance to impact (mm)	≥ 450	≥ 800	≥ 900	≥ 1000	≥ 1500	UNI EN 12691
Cold bending (°C)	≤ - 25	≤ - 25	≤ - 25	≤ - 25	≤ - 25	UNI EN 495 - 5
Hydrostatic pressure resistance (6 hours at 0,5 MPa)	waterproof	waterproof	waterproof	waterproof	waterproof	UNI EN 1928 meth. B
Dimensional stability after 6 hours at 80°C (%)	≤ ± 0,1	≤ ± 0,1	≤ ± 0,1	≤ ± 0,1	≤ ± 0,1	UNI EN 1107 - 2
Resistance to artificial weathering	no cracking	no cracking	no cracking	no cracking	no cracking	UNI EN 1297
Root resistance	no penetration	no penetration	no penetration	no penetration	no penetration	UNI EN 13948
Resistance to hail on rigid substrate (m/s)	≥ 25	≥ 25	≥ 25	≥ 25	≥ 25	UNI EN 13583
Thermal ageing in air after 168 d at 70°C						
Cold bending (°C)	≤ - 25	≤ - 25	≤ - 25	≤ - 25	≤ - 25	UNI EN 1296
Peel resistance of joints (N/50 mm)	≥ 150	≥ 150	≥ 150	≥ 150	≥ 150	UNI EN 12316 - 2
Shear resistance of joints	breaking out of joint	breaking out of joint	breaking out of joint	breaking out of joint	breaking out of joint	UNI EN 12317 - 2
Resistance to static punching (kg)	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	UNI EN 12730

## PRODUCTION STANDARD

Thickness (mm)	1,2	1,5	1,8	2,0	2,4
Width (m)	1,60 / 2,10	1,60 / 2,10	1,60 / 2,10	1,60 / 2,10	1,60 / 2,10
Length (m)	20 / 25	20	20	20	20
Colour	Light grey				

## ACCESSORIES SYSTEM

- FLAGON PVC for detail work (FLAGON S)
- Prefabricated accessories (corners, rain water outlet ecc.)
- FLAGON PVC CLEANER
- FLEXOCOL V (for vertical surface) / FLEXOCOL C (for UK market)
- PVC Flagmetal sheet - perimeter profile - termination strip - strip
- FLAGON SEAM PREP

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.



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