

FLAGON SV



WATERPROOFING

APPLICATIONS

ROOFS

GREEN ROOFS

PLANTER BOXES

TECHNICAL DATA SHEET

ANZ-TDS-33-FLAGON SV

DESCRIPTION

FLAGON SV is a synthetic PVC-P membrane obtained by cast process and dimensionally stabilised with a layer of glass fibre (50 g/m²).

FLAGON SV is designed for roofing applications. It is resistant to ultraviolet rays, to puncturing, to weathering and to roots growth.

Flagon PVC membranes are naturally fire resistant, they self-extinguish and resist the spread of flame.

FIELD OF APPLICATION

Designed for single-ply application on horizontal surfaces and vertical finishing, FLAGON SV can be ballasted and mechanically fixed or loose laid on insulation panels, concrete ceilings or existing waterproofing covering for the following general applications;

- General roofing
- Green roofs
- Planter boxes

APPLICATION METHOD

FLAGON SV is installed loose laid with a separation layer on ballasted horizontal surfaces and glued with FLEXOCOL V on vertical surfaces. If the height of the wall is higher than 50 cm FLAGON SV will need to be fixed.

The overlaps are heat welded using a leister automatic welder or a hot air gun.

INSTALLATION PROCEDURE

SUBSTRATE

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly
- Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets
- Concrete substrate must be fully cured before application of the membrane
- Concrete substrate must have a Concrete Surface Profile (CSP) between 2 and 4 as per International Concrete Repair Institute
- Adhesion test is recommended prior to installation of membrane
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator
- The use of FLEXOCOL V is required before the installation of FLAGON SV membrane at the vertical

INSTALLATION

- Unroll membrane sheets onto the roof surface
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 50 cm apart or lay a transverse sheet or strip (minimum width 20 cm) across the bottom of two or more perfectly aligned and parallel sheets to provide a connection to the subsequent set.
- Upstands are waterproofed with FLAGON SV membrane using FLEXOCOL V adhesive
- Laying of FLAGON SV strips to be positioned at the head of the rolls of FLAGON SV membrane; the strips should be welded in order to join the heads of the rolls of FLAGON SV
- All penetrations and upturn details should be waterproof as per SOPREMA Installation Guides and detail drawings

Compliance with AS 4654.1

Service life in excess of 35 years

Cold applied, flameless solution

High resistant to weathering & UV rays

Self-extinguish



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PACKAGING

SPECIFICATIONS	FLAGON SV		
Thickness	1.5 mm	2 mm	2.4 mm
Roll dimensions	20 m x 2.10 m	20 m x 2.10 m	20 m x 2.10 m
Roll weight	76 kg	100 kg	122 kg
Rolls per pallet	14	14	14

PROPERTIES

PROPERTIES	STANDARDS	FLAGON SV		
		1.5 mm	2 mm	2.4 mm
Weight (kg/m ²)	EN 1849-2	1.80	2.40	2.90
Tensile strength (N/mm ²)	EN 12311-2 met.B	≥ 9,0	≥ 9,0	≥ 9,0
Elongation to break (%)	EN 12311-2 met.B	≥ 200	≥ 200	≥ 200
Tear resistance (N)	EN 12310-2	≥ 135	≥ 170	≥ 200
Tear resistance - longitudinal (N) - transversal (N)	EN 12310-1	> 400 > 300	> 400 > 300	> 400 > 300
Resistance to impact (mm)	EN 12691 met.A	≥ 800	≥ 1250	≥ 1500
Cold bending (°C)	EN 495-5	≤ - 25	≤ - 25	≤ - 25
Hydrostatic pressure resistance (6 hours at 0,5 Mpa)	EN 1928 met. B	waterproof	waterproof	waterproof
Dimensional stability after 6 hours at 80°C (%)	EN 1107-2	≤ 0.1	≤ 0.1	≤ 0.1
Resistance to artificial weathering (UV)	EN 1297	no surface cracking	no surface cracking	no surface cracking
Resistance to roots penetration	EN 13948	no penetration	no penetration	no penetration
Resistance to static punching (kg)	EN 12730	≥ 20	≥ 20	≥ 20
Fire resistance	EN ISO 11925-1 EN 13501-1	E	E	E

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.



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