

APPLICATIONS ROOFS

GREEN ROOFS PLANTER BOXES







TECHNICAL DATA SHEE

DESCRIPTION

FLAGON EP/PR DE is a synthetic membrane manufactured in TPO modified polyolefin, double colour white/black, obtained by co-extrusion, and reinforced by a polyester mesh.

FLAGON EP/PR DE is designed for roofing applications. It is resistant to ultraviolet rays, to puncturing, to weathering and to roots growth. With a high Solar Reflective Index (SRI), it is an ideal solution to keep roof surfaces cool under the sun.

FIELD OF APPLICATION

Designed for single-ply application on horizontal surfaces, **FLAGON EP/PR DE** is mechanically fixed on insulation panels, concrete ceilings or existing water-proofing with separation layer covering for the following general applications:

- General roofing
- Green roofs
- Planter boxes
- Plaza decks
- Balconies

APPLICATION METHOD

On the main surface, FLAGON EP/PR DE is semi-loose laid by mechanical fastening, and always laid to run a few centimetres on the parabet.

FLAGON EP/PR DE membrane is fastened around the perimeter of the roof and around any protruding features with FLAGORAIL bars or adapted screws and plates. At the top of the upstands, **FLAGON EP/PR DE** is heat welded on FLAGMETAL strip mechanically fastened onto the substrate. The overlaps are heat welded using a leister automatic welder or a hot air gun.

INSTALLATION PROCEDURE

SUBSTRATE

- No work should start 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 BONDING ADHESIVE is required before the installation of FLAGON EP/PR DE 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 1 m 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 EP/PR DE membrane using FLEXOCOL BONDING ADHESIVE adhesive for upstands <40 cm high or mechanical fixed when upstands >40 cm.







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Resistant to puncture and wind stress

Service life in excess of 35 years

Cold applied, flameless solution

Fire retardant properties

High resistant to weathering & UV rays

SRI of 107



INSTALLATION (CONT.)

• All penetrations and upturn details should be waterproofed as per SOPREMA Installation Guides and detail drawings.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	FLAGON EP/PR DE				
Thickness	1.5 mm	2 mm			
Roll dimensions	20 m x 2.10 m	20 m x 2.10 m			
Roll weight	70 kg	94 kg			
Rolls per pallet	23	18			

PROPERTIES

DODEDTIEC		FLAGON EP/PR DE			
PROPERTIES	STANDARDS	1.5 mm	2 mm		
Weight (kg/m2)	EN 1849-2	1.65	2.23		
Tensile strength (N/5cm)	EN 12311-2	≥ 1100	≥ 1100		
Elongation to break (%)	EN 12311-2	≥ 15	≥ 15		
Tear resistance (N)	EN 12310-2	≥ 300	≥ 300		
Resistance to impact (mm)	EN 12691	≥ 800	≥ 1250		
Cold bending (°C)	EN 495-5	≤ - 35	≤ - 35		
Hydrostatic pressure resistance (6 hours at 0.5 Mpa)	EN 1928 met. B	waterproof	waterproof		
Dimensional stability after 6 hours at 80°C (%)	EN 1107-2	≤ 0.5	≤ 0.5		
Resistance to artificial weathering (UV)	EN 1297	no surface cracking	no surface cracking		
Resistance to roots penetration	EN 13948	no penetration	no penetration		
Resistance to static punching (kg)	EN 12730	≥ 20	≥ 20		
Fire resistance	EN ISO 11925-1 EN 13501-1	E	Е		

STATEMENT OF RESPONSIBILITY

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APPLICATIONS







TECHNICAL DATA SHEE

DESCRIPTION

FLAGON EP/PR F DE is a synthetic membrane manufactured in TPO modified polyolefin, dimensionally stabilized by a glass fiber and coupled on the back sheet with a non woven fleece.

FLAGON EP/PR F DE is designed for roofing applications. It is resistant to ultraviolet rays, to puncturing, to weathering and to roots growth. The upper white layer has a high Solar Reflective Index (SRI), it is an ideal solution to keep roof surfaces cool under the sun.

FIELD OF APPLICATION

Designed for single-ply application on horizontal surfaces, **FLAGON EP/PR F DE** is mechanically fixed or fully addered on insulation panels, concrete ceilings or existing waterproofing for the following general applications:

- General roofing
- Green roofs
- Planter boxes
- Plaza decks
- Balconies

APPLICATION METHOD

On the main surface, **FLAGON EP/PR F DE** is fully adhered or mechanical fastened, and always laid to run a few centimetres on the parapet.

FLAGON EP/PR F DE membrane is fastened around the perimeter of the roof and around any protruding features with FLAGORAIL bars or adapted screws and plates. At the top of the upstands, **FLAGON EP/PR DE** is heat welded on FLAGMETAL strip mechanically fastened onto the substrate. The overlaps are heat welded using a leister automatic welder or a hot air gun.

INSTALLATION PROCEDURE

SUBSTRATE

- No work should start 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 A89 TPO is required before the installation of FLAGON EP/PR F DE membrane at the horizontal.

INSTALLATION

- Unroll membrane sheets onto the roof surface.
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 m 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 EP/PR DE** membrane using FLEXOCOL BONDING ADHESIVE adhesive for upstands <40 cm high or mechanical fixed when upstands >40 cm.





ROOFS GREEN ROOFS PLANTER BOXES

Resistant to puncture and wind stress

Service life in excess of 35 years

Cold applied, flameless solution

Fire retardant properties

High resistant to weathering & UV rays

SRI of 107

FDS_FLAGON_EP/PR_F_DE_11-2023_RA



INSTALLATION (CONT.)

• All penetrations and upturn details should be waterproofed as per SOPREMA Installation Guides and detail drawings.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	FLAGON EP/PR F DE				
Thickness	1.5 mm	2 mm			
Roll dimensions	20 m x 2.10 m	20 m x 2.10 m			
Roll weight	80 kg	105 kg			
Rolls per pallet	12	12			

PROPERTIES

DODEDTIEC		FLAGON EP/PR F DE			
PROPERTIES	STANDARDS	1.5 mm	2 mm		
Weight (kg/m2)	EN 1849-2	1.90	2.50		
Tensile strength (N/5cm)	EN 12311-2	≥ 1000	≥ 1000		
Elongation to break (%)	EN 12311-2	≥ 350	≥ 350		
Tear resistance (N)	EN 12310-2	≥ 250	≥ 340		
Resistance to impact (mm)	EN 12691	≥ 800	≥ 1250		
Cold bending (°C)	EN 495-5	≤ - 35	≤ - 35		
Hydrostatic pressure resistance (6 hours at 0.5 Mpa)	EN 1928 met. B	waterproof	waterproof		
Dimensional stability after 6 hours at 80°C (%)	EN 1107-2	≤ 0.1	≤ 0.1		
Resistance to artificial weathering (UV)	EN 1297	no surface cracking	no surface cracking		
Resistance to roots penetration	EN 13948	no penetration	no penetration		
Resistance to static punching (kg)	EN 12730	≥ 20	≥ 20		
Fire resistance	EN ISO 11925-1 EN 13501-1	E	E		

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APPLICATIONS ROOFS

GREEN ROOFS PLANTER BOXES







TECHNICAL DATA SHEE

DESCRIPTION

FLAGON EP/S is a synthetic membrane manufactured in TPO modified polyolefin.

FLAGON EP/S is designed for roofing applications. It is resistant to ultraviolet rays.

FIELD OF APPLICATION

Designed for single-ply application on detailing work, **FLAGON EP/S** for the following general applications:

- General roofing
- Green roofs
- Planter boxes
- Plaza decks
- Balconies

APPLICATION METHOD

On the main surface, FLAGON EP/S is fully adhered or mechanical fastened, or loose laid.

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

INSTALLATION PROCEDURE

SUBSTRATE

- No work should start 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.

INSTALLATION

- Upstands are waterproofed with FLAGON EP/S membrane using FLEXOCOL TPO V adhesive
- · All penetrations and upturn details should be waterproof as per SOPREMA Installation Guides and detail drawings

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.







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Service life in excess of 35 years

Cold applied, flameless solution

High resistant to weathering & UV rays

SRI of 99 (white)



APPLICATIONS

ROOFS

GREEN ROOFS PLANTER BOXES

FLAGON EP/S





TECHNICAL DATA SHE

ANZ-TOS-131-ELAGON EP/S

PACKAGING

SPECIFICATIONS	FLAGON EP/S
Thickness	1.5 mm
Roll dimensions	20 m x 1.05 m
Roll weight	32 kg
Rolls per pallet	46

PROPERTIES

DODEDTIES		FLAGON EP/S
PROPERTIES	STANDARDS	1.5 mm
Weight (kg/m2)	EN 1849-2	1.50
Tensile strength (N/mm²)	EN 12311-2	≥ 10
Elongation to break (%)	EN 12311-2	≥ 550
Tear resistance (N)	EN 12310-2	≥ 80
Resistance to impact (mm)	EN 12691	≥ 600
Cold bending (°C)	EN 495-5	≤ - 35
Hydrostatic pressure resistance (6 hours at 0.5 Mpa)	EN 1928 met. B	waterproof
Resistance to artificial weathering (UV)	EN 1297	grade 0
Resistance to static punching (kg)	EN 12730	≥ 20
Fire resistance	EN ISO 11925-1 EN 13501-1	E

STORAGE AND HANDLING

If stored outdoors, cover with an opaque protection cover after removal of the delivery packaging.

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FLAGON TPO METAL SHEET



APPLICATIONS ROOFS

TECHNICAL DATA SHEE

ANZ-TDS-130-FLAGON TPO METAL SHEET

DESCRIPTION

FLAGON TPO METAL SHEET is made of a flexible modified polyolefin FLAGON TPO membrane bonded to a galvanised steel sheet. FLAGON TPO METAL SHEET is used for the realisation of custom made finishing elements of a roof such as flashings and profiles. It is distinguished by a high resistance to weathering and UV-rays.

FLAGON TPO METAL SHEET is compatible with FLAGON TPO membranes and ALSAN EP M.

APPLICATION

- Used for custom made finishing elements of a roof in combination with the flexible TPO waterproofing systems.
- Weld the FLAGON TPO membrane onto FLAGON TPO METAL SHEET with hot air.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	FLAGON TPO METAL SHEET
Upper side	Flexible TPO
Lower side	Galvanised steel
Total thickness	1,8 mm
Thickness PVC membrane	1,2 mm
Thickness steel sheet	0,6 mm
Width	1,00 m
Length	2 m / 3 m
Mass	5,5 kg/m²

STORAGE AND HANDLING

If stored outdoors, cover with an opaque protection cover after removal of the delivery packaging.

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TDS_FLAGON_TPO_METAL_SHEET_2024_RA

FLAGON TPO **PIPE COLLAR**

Rot-proof

Easy and quick to install

High puncturing resistance

Excellent weldability

DESCRIPTION

The FLAGON TPO PIPE COLLAR is a prefabricated element obtained by moulding and it is made of FLAGON TPO.

The FLAGON TPO PIPE COLLAR is used on roofing waterproofing system assembled with FLAGON TPO synthetic membranes to give continuity to the waterproofing around elements that come out from the roof.

APPLICATION

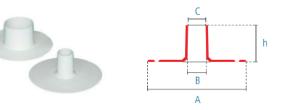
- FLAGON TPO PIPE COLLAR are welded with hot air all along the flange perimeter on the Flagon TPO membranes. Around the elements that come out from the roof it is necessary to place a permanent elastic sealant between FLAGON TPO PIPE COLLAR and the element that come out from the roof and, subsequently, tighten the upper end with a stainless steel clamp.
- FLAGON TPO PIPE COLLAR is compatible with all the accessories and membrane in the FLAGON TPO range.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	FLAGON TPO PIPE COLLAR
Appearance	RAL 7047
Packaging	25 units per box





ACCESSORY PRODUCTS

APPLICATIONS

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PROPERTIES

PROPERTIES			FLAGON TPO PIPE COLLAR								
		C10	C12	C30	C40	C60	C80	C100	C120	C140	C160
Width at flange	А	154 mm	154 mm	154 mm	154 mm	194 mm	194 mm	234 mm	234 mm	274 mm	274 mm
Internal diameter at bottom	В	11 mm	14 mm	32 mm	42 mm	62 mm	82 mm	102 mm	122 mm	142 mm	162 mm
Internal diameter at top	С	10 mm	12 mm	30 mm	40 mm	60 mm	80 mm	100 mm	120 mm	140 mm	160 mm
Height	h	60 mm	60 mm	60 mm	60 mm	60 mm	60 mm	90 mm	90 mm	90 mm	90 mm

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fDS_FLAGON_TPO_PIPE_COLLAR_07-2024_

SOPRASOLAR FIX EVO TILT (TPO)

DESCRIPTION

The SOPRASOLAR FIX EVO TILT system is solar waterproofing solution for flat roofs used as a support for photovoltaic panels. It allows connection between the panel and cap sheet membrane without drilling into it and compromising the waterproofing properties of the roof.

APPLICATION METHOD

SOPRASOLAR FIX EVO TILT is installed in total adhesion by heat welded on horizontal surfaces of TPO membranes.

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.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

INSTALLATION

- Install the FLAGON TPO membrane on the roof
- Mark the location of the SOPRASOLAR FIX EVO PEDESTAL on the FLAGON TPO membrane according to the pattern supplied by the contractor in charge of the photovoltaic panels
- Clean the FLAGON TPO membrane where the PEDESTAL will be welded
- · Install the PEDESTAL on the marked area
- · Weld the flages using a hot air welder

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SOPRASOLAR FIX EVO TILT COMPONENTS

The SOPRASOLAR FIX EVO PEDESTAL The LOWER RAISER and the UPPER RAISER allow The RAISER BLOCKER ensures that is a factory assembled height-adjustable the addition of a 10% slope to photovoltaic panels. the raiser blocks stay in place on the pedestal mechanically fastened to a pedestals. piece of waterproofing membrane. MATERIAL Polyamide 6 with 30% fibreglass filler 6060 T6 primary aluminum 6060 T6 primary aluminum DIMENSIONS PEDESTAL LOWER RAISER UPPER RAISER RAISER BLOCKER 250 mm \times 370 mm / H: 120 mm to 160 mm $40 \text{ mm} \times 120 \text{ mm} \times 45 \text{ mm}$ 40 mm × 120 mm × 200 mm $50 \text{ mm} \times 125 \text{ mm} \times 25 \text{ mm}$ •) 2 2 2 4

NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture

High puncture resistance

Installed without roof drilling

Ouick installation

No thermal bridging



APPLICATIONS

ROOFS





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APPLICATIONS

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SOPRASOLAR FIX EVO TILT (TPO)

PACKAGING

SPECIFICATIONS	SOPRASOLAR FIX EVO TILT			
Total weight	1.2 kg			
Material	ТРО			
Membrane thickness	1.8 mm			

PROPERTIES

PROPERTIES	STANDARDS	SOPRASOLAR FIX EVO TILT
Reinforcement	-	Polyester matrix
Vertical tensile strength (pedestal)	-	1700 N
Maximum tensile force at break	EN 12311-2	≥1100 N/5 cm
Elongation at break	EN 12311-2	15%
Pliability at low temperature	EN 495-5	-40°C
Dimensional stability after 6 hours at 80°C	EN 1107-2	< 0.5%
Static puncture resistance method A	EN 12730: 2001	≥20 kg
Nail tear strength	EN 12310-1	≥500 N
Durability test – temperature ageing: 24 weeks at 70°C: - pliability (UEATC guide 4.4.1.1 EN 495-5) - Tensile strength - elongation (UEATC guide 4.4.1.1 EN 12311-2)		Δ ≤10°C +/- 20%

STORAGE AND HANDLING

The elements of the systhme must be stored protected. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

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