

FLAGON EP/PR

TPO modified polyolefin synthetic membrane

April 2024

DESCRIPTION:

Synthetic membrane manufactured in TPO modified polyolefin, double colour sand-grey/black, obtained by co extrusion, reinforced by a polyester mesh. The upper sand grey layer is featured by a very high resistance to weather and UV rays, while the underlying black layer is punching resistant. Manufactured in a plant certified by UNI EN ISO 9001 (quality management system) and UNI EN ISO 14001 (environmental management system). Laying performed by applicators approved by Flag S.p.A. Finishing and accessories composed by elements produced and approved by Flag S.p.A.



FEATURES:

- Waterproof and UV resistance
- Resistant to wind stress
- Mechanical resistance and resistance to punching
- Adaptability to structural movements
- Flexibility at low temperatures

PACKAGING:

Thickness	1.20 mm		1.50 mm		1.80 mm		2.00 mm	
Width	1.05 m	2.10 m	1.05 m	2.10 m	1.05 m	2.10 m	1.05 m	2.10 m
Number of rolls on each pallet	46	23	46	23	36	18	36	18
Length	25 m		20 m		20 m		20 m	
Colour (surface / underside)	SAND GREY/BLACK							

TECHNICAL DATA:

Properties	EP/PR 1.20	EP/PR 1.50*	EP/PR 1.80	EP/PR 2.00	Test Method
Thickness (mm)	1.20	1.50	1.80	2.00	EN 1849-2
Weight (kg/m ²)	1.15	1.40	1.68	1.85	EN 1849-2
Tensile strength (N/5cm)	≥ 1100	≥ 1100	≥ 1100	≥ 1100	EN 12311-2
Elongation at break (%)	≥ 15	≥ 15	≥ 15	≥ 15	EN 12311-2
Tear resistance (N)	≥ 300	≥ 300	≥ 300	≥ 300	EN 12310-2
Resistance to impact (mm)	≥ 450	≥ 800	≥ 900	≥ 1250	EN 12691
Cold bending (°C)	≤ -40	≤ -40	≤ -40	≤ -40	EN 495-5
Hydrostatic pressure resistance (6 hours at 0.5 Mpa)	Waterproof	Waterproof	Waterproof	Waterproof	EN 1928 met. B
Dimensional stability (%)	≤ -0.15	≤ -0.15	≤ -0.15	≤ -0.15	EN 1107-2
Resistance to artificial weathering (UV)	No surface cracking	No surface cracking	No surface cracking	No surface cracking	EN 1297
Resistance to root penetration	No penetration	No penetration	No penetration	No penetration	13948
Resistance to static punching (kg)	≥ 20	≥ 20	≥ 20	≥ 20	EN 12730
Fire resistance	E	E	E	E	EN ISO 11925-2 EN 13501-1

*1.50 mm thickness as standard stock. Other sizes available on request.

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SCOPE OF USE:

FLAGON EP/PR is used as a single ply membrane in the FLAGON TPO Roof & Deck, and TPO-THERM Warm Roof waterproofing systems. The products is adhered with an Equus approved glue over plywood, concrete or other approved substrates. Suitable for roofs, decks, balconies, gutters and other waterproofing applications on new builds or renovations. Suitable for residential and commercial construction.

FLAGON EP/PR can be overlaid with Fixplus or other approved pedestals, pavers and decking, Kraitec Step walkway tiles, and SOPRASOLAR or other approved solar panel supports.

Uses not outlined in this TDS must have written approval by Equus Industries Ltd.

CONDITIONS OF USE:

In areas of regular foot traffic, higher than for normal maintenance traffic, the membrane must be overlaid with pedestals and pavers or decking, Kraitec Step walkway tiles or other approved protection.

The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (b), Flagon EP/PR has a durability of at least 15 years when installed with the correct specification, installation and maintenance. See BRANZ Appraisal 1157.

E2 External moisture - E2.3.1, E2.3.2, E2.3.7 Test data, together with in-service history in New Zealand and internationally, of the correctly installed Flagon EP/PR membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 1157.

F2 Hazardous building materials - F2.3.1 Well known experience with the type of materials used together with in-service history, show that Flagon EP/PR complies with this performance requirement. Refer to SDS at www.equus.nz.

SUPPORTING DOCUMENTATION:

Title (type)	Version	URL
BRANZ Appraisal No. 1157	11 May 2021	https://www.equus.nz/content/reports/branz-appraisal-flagon-tpo-1157.pdf

CE MARKING:

Unique identification code of the product type: WPASIT0028

FLAGON EP/PR membranes are produced by the company FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no. 1085-CPR-011 in accordance with EN 13956:2012.

HEALTH AND SAFETY:

For more information, please refer to the relevant safety data sheet.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Italy
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
Manufacturer website	www.soprema.com.au
Manufacturer email	info@soprema.com.au
Manufacturer phone number	+61 3 9221 6230
Manufacturer NZBN	9429050312962