FLAGON EP/PR F DE

BRANZ Appraised
Appraisal No. 1157 [2021]

BBA APPROVAL INSPECTION TESTING CERTIFICATION

TECHNICAL DATA SHEET

ANZ-TDS-114-FLAGON EP/PR F DE

WATERPROOFING

APPLICATIONS

ROOFS

GREEN ROOFS

PLANTER BOXES

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.

- 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

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 >40cm.

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.

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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

PROPERTIES	STANDARDS	FLAGON EP/PR F DE	
		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

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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