

## Technical Data Sheet N° WPSIT0048-14.04

### DESCRIPTION

Synthetic PVC-P membrane obtained by cast process, dimensionally stabilized by glass fiber and coupled on the back sheet with geotextile polyester.

This compound contains special pigments, they confer to the membrane a white colouring and a high solar reflection index (SRI). Furthermore the membrane is featured by a very high resistance to weather agents and UV rays on all the thickness.

Manufactured in a plant certified by UNI EN ISO 9001 (Quality management system) and UNI EN ISO 14001 (environmental management system).

Setting performed by applicators approved by Flag S.p.A.

Finishing and accessories composed by elements produced and approved by Flag S.p.A.

### FEATURES

- High solar reflection index (SRI)
- Weatherproof and UV resistance
- Dimensional stability
- Resistance to punching
- Excellent welding capacity

### AREA OF USE

#### ROOFING

- Total adherence on horizontal surfaces for:
  - gluing on insulating panels
  - gluing on concrete ceilings
  - gluing on existing waterproofing covering
- Roofing with high SRI (Cool Roof Effect)

	SF <sub>c</sub> 1,50 ENERGY PLUS	SF <sub>c</sub> 1,80 ENERGY PLUS	SF <sub>c</sub> 2,00 ENERGY PLUS	SF <sub>c</sub> 2,40 ENERGY PLUS	Test method
Solar reflection index (SRI)	97	97	97	97	ASTM E 1980

Tests performed at the Mechanical and Civil engineering Dept./EELab (Energy Efficiency Laboratory) – University of Modena and Reggio Emilia

### PROPERTIES

		SF <sub>c</sub> 1,50 ENERGY PLUS	SF <sub>c</sub> 1,80 ENERGY PLUS	SF <sub>c</sub> 2,00 ENERGY PLUS	SF <sub>c</sub> 2,40 ENERGY PLUS	Test method
Thickness	(mm)	1,50	1,80	2,00	2,40	EN 1849-2
Weight	(kg/m <sup>2</sup> )	2,00	2,35	2,60	3,10	EN 1849-2
Tensile strength	(N/5cm)	≥ 700	≥ 800	≥ 900	≥ 1100	EN 12311-2
Elongation to break	(%)	≥ 80	≥ 80	≥ 80	≥ 80	EN 12311-2
Resistance to impact	(mm)	≥ 800	≥ 900	≥ 1250	≥ 1500	EN 12691
Tear resistance	(N)	≥ 170	≥ 180	≥ 200	≥ 220	EN 12310-2
Cold bending	(°C)	≤ - 25	≤ - 25	≤ - 25	≤ - 25	EN 495-5
Waterproofing	(6 hours at 0,5 Mpa)	waterproof	waterproof	waterproof	waterproof	EN 1928 met. B
Dimensional stability	(%)	≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1	EN 1107-2
Resistance to artificial weathering	(UV)	no surface cracking	no surface cracking	no surface cracking	no surface cracking	EN 1297
Static punching resistance	(kg)	≥ 20	≥ 20	≥ 20	≥ 20	EN 12730
Fire resistance		E	E	E	E	EN ISO 11925-2 EN 13501-1

### PRODUCTION STANDARD

Thickness	1,50 mm	1,80 mm	2,00 mm	2,40 mm	
Width	1,60 m	1,60 m	1,60 m	1,60 m	
Number of rolls on each pallet	16	12	12	12	
Length	20 m	20 m	20 m	20 m	
Colour (surface / underside)	WHITE / TNT				

### CE MARKING

Unique identification code of the product-type: WPSIT0048

FLAGON SFC Energy Plus membranes are produced by the FLAG Spa factory (SOPREMA group) in Villa Santo Stefano are CE marked no.1085-CPR-018 in accordance with EN 13956:2012.

Due to its formulation, the liner is NOT subject to the requirements set forth in the CLP Regulation (EC) No 1272/2008 and EU n° 487/2013 and subsequent amendments on dangerous substances. If the product should be disposed of as a waste, we recommend sending it to an authorised landfill site or to an incinerator equipped with post-combustion chamber and fumes washing system.

The data herewith indicated, apart from those required by EC branding, are not exhaustive and Flag SpA may modify them without previous notice. Flag SpA, has the right to modify the product at any time and without previous notice, in any of its aspect, and to stop its production.

Flag SpA reserves the right, as technology and know-how progress, to modify without warning the composition and conditions of use of its materials, and subsequently their price. As a result, orders shall only be accepted on the basis of the terms and technical specifications applicable at the time of receipt.