

DECLARATION OF PERFORMANCE

N° WPSIT0051

Unique identification code of the product-type: **FLAGON SR
FLAGON SR Energy Plus (white version)**

Intended uses: **- PVC membrane for waterproofing of roofing (EN 13956:2012)
- PVC membrane for waterproofing of reservoirs, dams and canals (EN 13361:2013 – 13362:2013)**

Manufacturer: **SOPREMA srl
Via Industriale dell'Isola, 3
24040 CHIGNOLO D'ISOLA (BG) – Italia
www.soprema.it**

Authorised representative: **Not applicable**

Systems of AVCP: **System 2+**

Harmonised standard: **EN 13956:2012
EN 13361:2013 – 13362:2013**

Notifies bodies: **Notified Body No. 1085
OFI Technologie & Innovation GmbH**

Declared performances:

Essential characteristics	Test method	Performance	Harmonised technical specification
External fire performance	EN 13501-5	F_{ROOF}(t₁, t₂, t₃)	EN 13956:2012
Reaction to fire	EN ISO 11925-2 EN 13501-1	E	
Watertightness	EN 1928 met. B	pass	
Tensile properties: - Tensile strength (N/5cm) - Elongation (%)	EN 12311-2 met.A EN 12311-2 met.A	≥ 1100 ≥ 15	
Resistance to impact (mm) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	EN 12691 met. A	≥ 450 ≥ 800 ≥ 900 ≥ 1250 ≥ 1500	
Resistance to static loading (kg)	EN 12730	≥ 20	
Tear resistance (N)	EN 12310-2	≥ 200	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm)	EN 12316-2 EN 12317-2	≥ 200 > 600 break out joint	
Foldability at low temperature	EN 495-5	≤ -25°C	
Resistance to root	EN 13948	resistant	
Durability: Exposure to UV radiation, elevated temperature and water	EN 1297	grade 0	
Dangerous substances	-	conforms	

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Essential characteristics	Test method	Performance	Harmonised technical specification
Tensile strenght: - Longitudinal (MD) (N/5cm) - Transversal (CMD) (N/5cm)	EN ISO 527-4	> 1200 (-100 N/5cm) > 1200 (-100 N/5cm)	EN 13361:2013 EN 13362:2013
Resistance to static puncture (kN) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,5 mm	EN ISO 12236	> 1,54 (-0,09 kN) > 1,91 (-0,11 kN) > 2,30 (-0,14 kN) > 2,60 (-0,15 kN) > 2,75 (-0,15 kN)	
Water permeability:	EN 14150	< 10⁻⁶m³m⁻²d⁻¹	
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking Weathering, variation in tensile properties after 10500 h (%)	EN 14575 ASTM D 5397 EN 12224	≤ 25 not applicable ≤ 25	
Dangerous substances	-	conforms	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by: **Mr. BROCCANELLO Bruno, Managing Director**
Chignolo d'Isola, 01/10/2017

