

DECLARATION OF PERFORMANCE

N° WPSIT0031

Unique identification code of the product-type: **FLAGON EP/PV-F
FLAGON EP/PV-F Energy Plus (white version)**

Intended uses: **- TPO membrane for waterproofing of roofing (EN 13956:2012)
- TPO membrane for waterproofing for rising damp from the ground (EN 13967:2012)**

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 13967:2012**

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}	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)			
thickness 1,2 mm	EN 12311-2 met.A	≥ 550	
thickness 1,5 mm		≥ 650	
thickness 1,8 mm		≥ 800	
thickness 2,0 mm		≥ 850	
thickness 2,4 mm		≥ 1000	
- Elongation (%)	EN 12311-2 met.A	≥ 350	
Resistance to impact (mm)			
thickness 1,2 mm	EN 12691 met. A	≥ 450	
thickness 1,5 mm		≥ 800	
thickness 1,8 mm		≥ 900	
thickness 2,0 mm		≥ 1250	
thickness 2,4 mm		≥ 1500	
Resistance to static loading (kg)	EN 12730	≥ 20	
Tear resistance (N)			
thickness 1,2 mm	EN 12310-2	≥ 200	
thickness 1,5 mm		≥ 250	
thickness 1,8 mm		≥ 300	
thickness 2,0 mm		≥ 340	
thickness 2,4 mm		≥ 400	
Joint strength:			
- Peel resistance (N/50mm)	EN 12316-2	≥ 200	
- Shear resistance (N/5cm)			
thickness 1,2 mm	EN 12317-2	> 325	
thickness 1,5 mm		> 400	
thickness 1,8 mm		> 490	
thickness 2,0 mm		> 540	
thickness 2,4 mm		> 540	
		break out joint	
Foldability at low temperature	EN 495-5	≤ -40°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
Reaction to fire	EN 13501-1	E	EN 13967:2012
Water tightness at 2kPa and 60kPa	EN 1928 met. B	watertight	
Tear resistance (N)	EN 12310-1	> 500	
Joint strength (N/50mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	EN 12317-2	> 400 > 490 > 540 > 650	
Resistance to impact (mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	EN 12691	≥ 800 ≥ 900 ≥ 1250 ≥ 1500	
Tensile properties: - Tensile strength (N/5cm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm - Elongation (%)	EN 12311-2	> 650 > 800 > 850 > 1000 > 350	
Resistance to static loading (kg)	EN 12730	> 20	
Durability: - against ageing at 2kPa and 60 kPa - against chemicals at 2kPa and 60 kPa	EN 1296 EN 1847	watertight watertight	

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

