

# DECLARATION OF PERFORMANCE

N° WPSIT0056

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

Intended uses: **- PVC membrane for waterproofing of roofing (EN 13956:2012)  
- PVC 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	<b>F<sub>ROOF</sub></b>	<b>EN 13956:2012</b>
Reaction to fire	EN ISO 11925-2 EN 13501-1	<b>E</b>	
Watertightness	EN 1928 met. B	<b>pass</b>	
Tensile properties: - Tensile strength (N/mm <sup>2</sup> ) - Elongation (%)	EN 12311-2 met.B EN 12311-2 met.B	<b>≥ 9,0</b> <b>≥ 200</b>	
Resistance to impact (mm) thickness 1,20 mm thickness 1,50 mm thickness 1,75 mm thickness 1,80 mm thickness 2,00 mm thickness 2,40 mm	EN 12691 met. A	<b>≥ 450</b> <b>≥ 800</b> <b>≥ 900</b> <b>≥ 900</b> <b>≥ 1250</b> <b>≥ 1500</b>	
Resistance to static loading (kg)	EN 12730	<b>≥ 20</b>	
Tear resistance (N) thickness 1,20 mm thickness 1,50 mm thickness 1,75 mm thickness 1,80 mm thickness 2,00 mm thickness 2,40 mm	EN 12310-2	<b>≥ 110</b> <b>≥ 135</b> <b>≥ 150</b> <b>≥ 160</b> <b>≥ 170</b> <b>≥ 200</b>	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm) thickness 1,20 mm thickness 1,50 mm thickness 1,75 mm thickness 1,80 mm thickness 2,00 mm thickness 2,40 mm	EN 12316-2  EN 12317-2	<b>≥ 200</b>  <b>&gt; 430</b> <b>&gt; 540</b> <b>&gt; 620</b> <b>&gt; 640</b> <b>&gt; 720</b> <b>&gt; 720</b>  <i>break out joint</i>	
Foldability at low temperature	EN 495-5	<b>≤ -25°C</b>	
Resistance to root	EN 13948	<b>resistant</b>	
Durability: Exposure to UV radiation, elevated temperature and water	EN 1297	<b>grade 0</b>	
Dangerous substances	-	<b>conforms</b>	

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Essential characteristics	Test method	Performance	Harmonised technical specification
Reaction to fire	EN 13501-1	<b>E</b>	<b>EN 13967:2012</b>
Water tightness at 2kPa and 60kPa	EN 1928 met. B	<b>watertight</b>	
Tear resistance (N) longitudinal transversal	EN 12310-1	<b>&gt; 400</b> <b>&gt; 300</b>	
Joint strength (N/50mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN 12317-2	<b>&gt; 540</b> <b>&gt; 640</b> <b>&gt; 720</b>	
Resistance to impact (mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN 12691	<b>≥ 800</b> <b>≥ 900</b> <b>≥ 1250</b>	
Tensile properties: - Tensile strength (N/mm <sup>2</sup> ) longitudinal transversal - Elongation (%) longitudinal transversal	EN 12311-2	<b>&gt; 9</b> <b>&gt; 9</b> <b>&gt; 200</b> <b>&gt; 200</b>	
Resistance to static loading (kg)	EN 12730	<b>&gt; 20</b>	
Durability: - against ageing at 2kPa and 60 kPa - against chemicals at 2kPa and 60 kPa	EN 1296 EN 1847	<b>watertight</b> <b>watertight</b>	

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**

