

# DECLARATION OF PERFORMANCE

N° WPSIT0030

Unique identification code of the product-type:	<b>FLAGON EP/PV</b> <b>FLAGON EP/PV Energy Plus (white version)</b>
Intended uses:	- <b>TPO membrane for waterproofing of roofing (EN 13956:2012)</b> - <b>TPO membrane for waterproofing for rising damp from the ground (EN 13967:2012)</b>
Manufacturer:	<b>SOPREMA srl</b> <b>Via Industriale dell'Isola, 3</b> <b>24040 CHIGNOLO D'ISOLA (BG) – Italia</b> <b>www.soprema.it</b>
Authorised representative:	<b>Not applicable</b>
Systems of AVCP:	<b>System 2+</b>
Harmonised standard:	<b>EN 13956:2012</b> <b>EN 13967:2012</b>
Notifies bodies:	<b>Notified Body No. 1085</b> <b>OFI Technologie &amp; Innovation GmbH</b>
Declared performances:	

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)	EN 12310-1	<b>&gt; 500</b>	
Joint strength (N/50mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	EN 12317-2	<b>&gt; 400</b> <b>&gt; 490</b> <b>&gt; 540</b> <b>&gt; 650</b>	
Resistance to impact (mm) thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	EN 12691	<b>≥ 800</b> <b>≥ 900</b> <b>≥ 1250</b> <b>≥ 1500</b>	
Tensile properties: - Tensile strength (N/mm <sup>2</sup> ) longitudinal transverse - Elongation (%) longitudinal transverse	EN 12311-2	<b>&gt; 9</b> <b>&gt; 9</b> <b>&gt; 550</b> <b>&gt; 550</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>	

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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>≥ 550</b>	
Resistance to impact (mm) thickness 1,2 mm thickness 1,5 mm thickness 1,6 mm thickness 1,8 mm thickness 2,0 mm thickness 2,2 mm thickness 2,4 mm	EN 12691 met. A	<b>≥ 450</b> <b>≥ 800</b> <b>≥ 800</b> <b>≥ 900</b> <b>≥ 1250</b> <b>≥ 1250</b> <b>≥ 1500</b>	
Resistance to static loading (kg)	EN 12730	<b>≥ 20</b>	
Tear resistance (N) thickness 1,2 mm thickness 1,5 mm thickness 1,6 mm thickness 1,8 mm thickness 2,0 mm thickness 2,2 mm thickness 2,4 mm	EN 12310-2	<b>≥ 130</b> <b>≥ 165</b> <b>≥ 175</b> <b>≥ 195</b> <b>≥ 220</b> <b>≥ 230</b> <b>≥ 240</b>	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm) thickness 1,2 mm thickness 1,5 mm thickness 1,6 mm thickness 1,8 mm thickness 2,0 mm thickness 2,2 mm thickness 2,4 mm	EN 12316-2  EN 12317-2	<b>≥ 200</b>  <b>&gt; 325</b> <b>&gt; 400</b> <b>&gt; 420</b> <b>&gt; 490</b> <b>&gt; 540</b> <b>&gt; 540</b> <b>&gt; 540</b>  break out joint	
Foldability at low temperature	EN 495-5	<b>≤ -40°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>	

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**

