

No. WPSIT0051  
Date: September, 27<sup>th</sup> 2016 – Rev. d

1 – Unique identification code of the product-type:

**WPSIT0051**

Commercial name(s):

- **FLAGON SR**
- **FLAGON SR – Energy Plus (white version)**

2 - Intended use(es):

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

3 – Manufacturer:

**FLAG S.P.A**  
**Via Industriale dell'Isola, 3**  
**24040 CHIGNOLO D'ISOLA (BG)**  
**www.soprema.it – www.flag-on.com**

4 – Authorised representative:

**Not applicable**

5 – System(s) of assessment and verification of constancy of performance:

**SYSTEM 2+**

6a – Harmonised standard: **EN 13956:2012**  
**EN 13361:2013 – 13362:2013**

Notified body(ies):

**The ofi CERT (Notified Body No. 1085):**

- **has performed the verification of the system of factory production control according to the system 2+**
- **has issued the certificate of conformity of the factory production control no. 1085-CPR-0010 for Chignolo and no. 1085-CPR-0018 for Villa SS (EN 13956:2012) and no. 1085-CPR-0007 (EN 13361:2013 – 13362:2013).**

No. WPSIT0051  
Date: September, 27<sup>th</sup> 2016 – Rev. d

7 – Declared performance:

Essential characteristics	Performance	Test method	Harmonised technical specification
External fire performance	<b>F<sub>ROOF</sub>(t<sub>1</sub>, t<sub>2</sub>, t<sub>3</sub>)</b>	EN 13501-5	<b>EN 13956:2012</b>
Reaction to fire	<b>E</b>	EN ISO 11925-2 EN 13501-1	
Watertightness	<b>pass</b>	EN 1928 met. B	
Tensile properties: - Tensile strength (N/5cm) - Elongation (%)	<b>≥ 1100</b> <b>≥ 15</b>	EN 12311-2 met.A EN 12311-2 met.A	
Resistance to impact (mm) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	<b>≥ 450</b> <b>≥ 800</b> <b>≥ 900</b> <b>≥ 1250</b> <b>≥ 1500</b>	EN 12691 met. A	
Resistance to static loading (kg)	<b>≥ 20</b>	EN 12730	
Tear resistance (N)	<b>≥ 200</b>	EN 12310-2	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm)	<b>≥ 200</b> <b>&gt; 600</b> <b>break out joint</b>	EN 12316-2 EN 12317-2	
Foldability at low temperature	<b>≤ -25°C</b>	EN 495-5	
Resistance to root	<b>resistant</b>	EN 13948	
Durability: Exposure to UV radiation, elevated temperature and water	<b>grade 0</b>	EN 1297	
Dangerous substances	<b>conforms</b>	-	

No. WPSIT0051  
Date: September, 27<sup>th</sup> 2016 – Rev. d

Essential characteristics	Performance	Test method	Harmonised technical specification
Tensile strength: - Longitudinal (MD) (N/5cm) - Transversal (CMD) (N/5cm)	<b>&gt; 1200</b> (-100 N/5cm) <b>&gt; 1200</b> (-100 N/5cm)	EN ISO 527-4	<b>EN 13361:2013</b> <b>EN 13362:2013</b>
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	<b>&gt; 1,54</b> (-0,09 kN) <b>&gt; 1,91</b> (-0,11 kN) <b>&gt; 2,30</b> (-0,14 kN) <b>&gt; 2,60</b> (-0,15 kN) <b>&gt; 2,75</b> (-0,15 kN)	EN ISO 12236	
Water permeability:	<b>&lt; 10<sup>-6</sup>m<sup>3</sup>m<sup>-2</sup>d<sup>-1</sup></b>	EN 14150	
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking Weathering, variation in tensile properties after 10500 h (%)	<b>≤ 25</b> <b>not applicable</b> <b>≤ 25</b>	EN 14575 ASTM D 5397 EN 12224	
Dangerous substances	<b>conforms</b>	-	

8 – Appropriate Technical Documentation and/or Specific Technical Documentation:

**Not applicable**

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:

Chignolo d'Isola, September, 27<sup>th</sup> 2016  
Managing Director, Mr. BROCCANELLO Bruno  
Flag S.p.A.

