



DECLARATION OF PERFORMANCE



No. WPSIT0031

1 – Unique identification code of the product-type:

WPSIT0031

2 - Identification of the construction product as required pursuant to Article 11(4) of Regulation (EU) No. 305/2011:

- **FLAGON EP/PV-F**
- **FLAGON EP/PV-F – Energy Plus (white version)**

3 - Intended use or uses of the construction product:

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

4 – Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5) of Regulation (EU) No. 305/2011:

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

5 – Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) of Regulation (EU) No. 305/2011:

Not applicable

6 – System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V of Regulation (UE) No. 305/2011:

SYSTEM 2+

7 – Case of the declaration of performance concerning a construction product covered by a harmonised standard:

- 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-0011 (EN 13956:2012) and no. 1085-CPR-0037 (EN 13967:2012).**

8 – Case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not applicable



SOPREMA

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DECLARATION OF PERFORMANCE

No. WPSIT0031

9 – Declared performance:

Essential characteristics	Performance	Test method	Harmonised technical specification
External fire performance	F_{ROOF}	EN 13501-5	EN 13956:2012
Reaction to fire	E	EN ISO 11925-2 EN 13501-1	
Watertightness	pass	EN 1928 met. B	
Tensile properties:			
- Tensile strength (N/5cm)			
thickness 1,2 mm	≥ 550	EN 12311-2 met.A	
thickness 1,5 mm	≥ 650		
thickness 1,8 mm	≥ 800		
thickness 2,0 mm	≥ 850		
thickness 2,4 mm	≥ 1000		
- Elongation (%)	≥ 350	EN 12311-2 met.A	
Resistance to impact (mm)			
thickness 1,2 mm	≥ 450	EN 12691 met. A	
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)	≥ 20	EN 12730	
Tear resistance (N)			
thickness 1,2 mm	≥ 200	EN 12310-2	
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)	≥ 200	EN 12316-2	
- Shear resistance (N/5cm)			
thickness 1,2 mm	> 325	EN 12317-2	
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	≤ -40°C	EN 495-5	
Resistance to root	resistant	EN 13948	
Durability:			
Exposure to UV radiation, elevated temperature and water	grade 0	EN 1297	
Dangerous substances	conforms	-	

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No. WPSIT0031

Essential characteristics	Performance	Test method	Harmonised technical specification
Reaction to fire	E	EN 13501-1	EN 13967:2012
Water tightness at 2kPa and 60kPa	watertight	EN 1928 met. B	
Tear resistance (N)	> 500	EN 12310-1	
Joint strength (N/50mm)		EN 12317-2	
thickness 1,5 mm	> 400		
thickness 1,8 mm	> 490		
thickness 2,0 mm	> 540		
thickness 2,4 mm	> 650		
Resistance to impact (mm)		EN 12691	
thickness 1,5 mm	≥ 800		
thickness 1,8 mm	≥ 900		
thickness 2,0 mm	≥ 1250		
thickness 2,4 mm	≥ 1500		
Tensile properties:		EN 12311-2	
- Tensile strength (N/5cm)			
thickness 1,5 mm	> 650		
thickness 1,8 mm	> 800		
thickness 2,0 mm	> 850		
thickness 2,4 mm	> 1000		
- Elongation (%)	> 350		
Resistance to static loading (kg)	> 20	EN 12730	
Durability:			
- against ageing at 2kPa and 60 kPa	watertight	EN 1296	
- against chemicals at 2kPa and 60 kPa	watertight	EN 1847	

10 – The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Chignolo d'Isola, 10 April 2014
 Managing Director, Mr. BROCCANELLO Bruno
 Flag S.p.A.

