CE 13

DECLARATION OF PERFORMANCE

CIVIL ROCK by SOPREMA

No. WPSIT0006

Date: September, 27th 2016 – Rev. d

1 – Unique identification code of the product-type:

WPSIT0006

Commercial name(s):

FLAGON A

2 - Intended use(es):

- PVC membrane for waterproofing of roofing (not UV exposed application) (EN 13956:2012)
- PVC membrane for waterproofing for rising damp from the ground (EN 13967:2012)
- PVC membrane for waterproofing of reservoirs, dams and canals (not UV exposed application) (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 13967:2012
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 (EN 13956:2012), no. 1085-CPR-0036 (EN 13967:2012) and no. 1085-CPR-0007 (EN 13361:2013 – 13362:2013).

CE 13

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7 – Declared performance:

Essential characteristics	Performance	Test method	Harmonised technical specification
External fire performance	**FROOF**	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/mm²)	**≥ 17,5**	EN 12311-2 met.B	
- Elongation (%)	**≥ 300**	EN 12311-2 met.B	
Resistance to impact (mm)		EN 12691 met. A	
thickness 1,2 mm	**≥ 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)	**≥ 20**	EN 12730	
Tear resistance (N)		EN 12310-2	
thickness 1,2 mm	**≥ 100**		
thickness 1,5 mm	**≥ 120**		
thickness 1,8 mm	**≥ 145**		
thickness 2,0 mm	**≥ 160**		
thickness 2,4 mm	**≥ 200**		
Joint strength:			
- Peel resistance (N/50mm)	**≥ 200**	EN 12316-2	
- Shear resistance (N/5cm)		EN 12317-2	
thickness 1,2 mm	**> 735**		
thickness 1,5 mm	**> 915**		
thickness 1,8 mm	**> 1100**		
thickness 2,0 mm	**> 1200**		
thickness 2,4 mm	**> 1200**		
	break out joint		
Foldability at low temperature	**≤ -25°C**	EN 495-5	
Resistance to root	**resistant**	EN 13948	
Durability:			
Exposure to UV radiation, elevated temperature and water	no UV resistant	EN 1297	
Dangerous substances	**conforms**	-	

CE 13

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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)		EN 12310-1	
thickness 1,2 mm	**> 300**		
thickness 1,5 mm	**> 375**		
thickness 1,8 mm	**> 450**		
thickness 2,0 mm	**> 500**		
thickness 2,4 mm	**> 600**		
Joint strength (N/50mm)		EN 12317-2	
thickness 1,2 mm	**> 735**		
thickness 1,5 mm	**> 915**		
thickness 1,8 mm	**> 1100**		
thickness 2,0 mm	**> 1200**		
thickness 2,4 mm	**> 1200**		
Resistance to impact (mm)		EN 12691	
thickness 1,2 mm	**≥ 450**		
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/mm^2)			
longitudinal	**> 17,5**		
transverse	**> 17,5**		
- Elongation (%)			
longitudinal	**> 300**		
transverse	**> 300**		
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	

CE 13

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Essential characteristics	Performance	Test method	Harmonised technical specification
Tensile strenght:			EN 13361:2013 EN 13362:2013
- Longitudinal (MD) (N/mm²)	**≥ 18,0 (-0,50 N/mm²)**	EN ISO 527-3	
- Transversal (CMD) (N/mm²)	**≥ 18,0 (-0,50 N/mm²)**		
Resistance to static puncture (kN)		EN ISO 12236	
thickness 1,5 mm	**> 1,87 (-0,07 kN)**		
thickness 1,8 mm	**> 2,23 (-0,07 kN)**		
thickness 2,0 mm	**> 2,52 (-0,07 kN)**		
Water permeability:	**< 10^{-6} m^3 m^{-2} d^{-1}**	EN 14150	
Durability:			
- Oxidation, variation in tensile properties (%)	**≤ 25**	EN 14575	
- Environmental stress cracking (h)	**not applicable**	ASTM D 5397	
➢ - Weathering, variation in tensile properties after 10500 h (%)	**≤ 25**	EN 12224	

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, 27th 2016
Managing Director, Mr. BROCCANELLO Bruno
Flag S.p.A.