DECLARATION OF PERFORMANCE

N° **WPSIT0006**

Unique identification code of the product-type: **FLAGON A**

Intended uses: **- PVC membrane for waterproofing of roofing (not UV exposed application) (EN 13956:2012)**
- PVC membrane for waterproofing for rising damp from the ground (not UV exposed application) (EN 13967:2012)
- PVC membrane for waterproofing of reservoirs, dams and canals (not UV exposed application) (EN 13361:2013 – 13362:2013)

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
EN 13361:2013 – 13362:2013

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	**F_{ROOF}**	**EN 13956:2012**
Reaction to fire	EN ISO 11925-2 EN 13501-1	**E**	
Watertightness	EN 1928 met. B	**pass**	
Tensile properties: - Tensile strength (N/mm²) - Elongation (%)	 EN 12311-2 met.B EN 12311-2 met.B	 **≥ 17,5** **≥ 300**	
Resistance to impact (mm) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	 EN 12691 met. A	 **≥ 450** **≥ 800** **≥ 900** **≥ 1250** **≥ 1500**	
Resistance to static loading (kg)	EN 12730	**≥ 20**	
Tear resistance (N) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	 EN 12310-2	 **≥ 100** **≥ 120** **≥ 145** **≥ 160** **≥ 200**	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm thickness 2,4 mm	 EN 12316-2 EN 12317-2	 **≥ 200** **> 735** **> 915** **> 1100** **> 1200** **> 1200** break out joint	
Foldability at low temperature	EN 495-5	**≤ -25°C**	
Resistance to root	EN 13948	**resistant**	
Durability: Exposure to UV radiation, elevated temperature and water	 EN 1297	 no UV resistant	
Dangerous substances	-	**conforms**	

WPSIT0006.e/EN

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DECLARATION OF PERFORMANCE

N° **WPSIT0006**

Essential characteristics	Test method	Performance	Harmonised technical specification
Reaction to fire	EN 13501-1	**E**	**EN 13967:2012**
Water tightness at 2kPa and 60kPa	EN 1928 met. B	**watertight**	
Tear resistance (N)			
thickness 1,2 mm	EN 12310-1	**> 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)			
thickness 1,2 mm	EN 12317-2	**> 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)			
thickness 1,2 mm	EN 12691	**≥ 450**	
thickness 1,5 mm		**≥ 800**	
thickness 1,8 mm		**≥ 900**	
thickness 2,0 mm		**≥ 1250**	
thickness 2,4 mm		**≥ 1500**	
Tensile properties:			
- Tensile strength (N/mm^2)			
longitudinal	EN 12311-2	**> 17,5**	
transverse		**> 17,5**	
- Elongation (%)			
longitudinal		**> 300**	
transverse		**> 300**	
Resistance to static loading (kg)	EN 12730	**> 20**	
Durability:			
- against ageing at 2kPa and 60 kPa	EN 1296	**watertight**	
- against chemicals at 2kPa and 60 kPa	EN 1847	**watertight**	

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

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

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