DECLARATION OF PERFORMANCE

N° **WPSIT0013**

Unique identification code of the product-type:	**FLAGON BSL**
Intended uses:	**- PVC membrane for waterproofing of tunnels and underground structures (EN 13491:2004/A1:2006)** **- PVC membrane for waterproofing for rising damp from the ground (EN 13967:2012)**
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 13491:2004/A1:2006** **EN 13967:2012**
Notifies bodies:	**Notified Body No. 1085** **OFI Technologie & Innovation GmbH**

Declared performances:

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 1,5 mm	EN 12310-1	**> 375**	
thickness 1,9 mm		**> 475**	
thickness 2,0 mm		**> 500**	
thickness 2,2 mm		**> 550**	
thickness 2,5 mm		**> 625**	
thickness 3,0 mm		**> 750**	
Joint strength (N/50mm)			
thickness 1,5 mm	EN 12317-2	**> 750**	
thickness 1,9 mm		**> 950**	
thickness 2,0 mm		**> 1100**	
thickness 2,2 mm		**> 1150**	
thickness 2,5 mm		**> 1250**	
thickness 3,0 mm		**> 1500**	
Resistance to impact (mm)			
thickness 1,5 mm	EN 12691	**≥ 450**	
thickness 1,9 mm		**≥ 750**	
thickness 2,0 mm		**≥ 750**	
thickness 2,2 mm		**≥ 800**	
thickness 2,5 mm		**≥ 900**	
thickness 3,0 mm		**≥ 1200**	
Tensile properties:			
- Tensile strength (N/mm^2)	EN 12311-2		
longitudinal		**> 15**	
transverse		**> 14**	
- Elongation (%)			
longitudinal		**> 300**	
transverse		**> 280**	
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**	

WPSIT0013.h/EN

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N° **WPSIT0013**

Essential characteristics	Test method	Performance	Harmonised technical specification
Tensile strength: - Longitudinal (MD) (N/mm²) - Transversal (CMD) (N/mm²)	EN ISO 527-3	**> 15,2** (-0,20 N/mm²) **> 14,2** (-0,20 N/mm²)	**EN 13491:2004 /A1:2006**
Resistance to static puncture (kN) thickness 1,5 mm thickness 2,0 mm thickness 2,2 mm thickness 2,5 mm thickness 3,0 mm thickness 3,1 mm thickness 3,2 mm thickness 3,3 mm thickness 3,5 mm	EN ISO 12236	**> 2,00** (-0,10 kN) **> 2,70** (-0,20 kN) **> 2,95** (-0,20 kN) **> 3,17** (-0,17 kN) **> 3,60** (-0,20 kN) **> 3,60** (-0,20 kN) **> 3,70** (-0,20 kN) **> 3,80** (-0,20 kN) **> 4,00** (-0,20 kN)	
Water permeability:	EN 14150	**< $10^{-6}m^3m^{-2}d^{-1}$**	
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking	EN 14575 ASTM D 5397	**≤ 25** **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: **Mr. BROCCANELLO Bruno, Managing Director**
Chignolo d'Isola, 18/09/2020

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