

Unique identification code of the product-type: **FLAGON BT/I**

Intended uses: **- PVC membrane for waterproofing of tunnels and underground structures (EN 13491:2013)**
- 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 13491:2013**
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 thickness 1,9 mm thickness 2,0 mm thickness 2,2 mm thickness 2,5 mm thickness 3,0 mm	EN 12310-1	> 375	
		> 475	
		> 500	
		> 550	
		> 625	
		> 750	
Joint strength (N/50mm) thickness 1,5 mm thickness 1,9 mm thickness 2,0 mm thickness 2,2 mm thickness 2,5 mm thickness 3,0 mm	EN 12317-2	> 750	
		> 950	
		> 1100	
		> 1150	
		> 1250	
		> 1500	
Resistance to impact (mm) thickness 1,5 mm thickness 1,9 mm thickness 2,0 mm thickness 2,2 mm thickness 2,5 mm thickness 3,0 mm	EN 12691	≥ 450	
		≥ 750	
		≥ 750	
		≥ 800	
		≥ 900	
		≥ 1200	
Tensile properties: - Tensile strength (N/mm ²) longitudinal transverse - Elongation (%) longitudinal transverse	EN 12311-2	> 16	
		> 16	
		> 300	
		> 300	
Resistance to static loading (kg)	EN 12730	> 20	
Durability: - against ageing at 2kPa and 60 kPa - against chemicals at 2kPa and 60 kPa	EN 1296	watertight	
	EN 1847	watertight	

Essential characteristics	Test method	Performance	Harmonised technical specification
Tensile strength: - Longitudinal (MD) (N/mm ²) - Transversal (CMD) (N/mm ²)	EN ISO 527-3	> 16,2 (-0,20 N/mm ²) > 16,2 (-0,20 N/mm ²)	EN 13491:2013
Resistance to static puncture (kN) thickness 1,5 mm thickness 1,9 mm thickness 2,0 mm thickness 2,2 mm thickness 2,5 mm thickness 3,0 mm	EN ISO 12236	> 1,75 (-0,10 kN) > 2,24 (-0,14 kN) > 2,39 (-0,14 kN) > 2,59 (-0,14 kN) > 2,97 (-0,17 kN) > 3,90 (-0,20 kN)	
Water permeability:	EN 14150	< 10⁻⁶ m³ m⁻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, 01/10/2017

