

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

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}(t₁,t₂,t₃)	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/mm ²) - Elongation (%)	EN 12311-2 met.B EN 12311-2 met.B	≥ 13,0 ≥ 230	
Resistance to impact (mm) thickness 1,0 mm thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN 12691 met. A	≥ 350 ≥ 400 ≥ 450 ≥ 700 ≥ 750	
Resistance to static loading (kg)	EN 12730	≥ 20	
Tear resistance (N) thickness 1,0 mm thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN 12310-2	≥ 50 ≥ 60 ≥ 75 ≥ 90 ≥ 100	
Joint strength: - Peel resistance (N/50mm) - Shear resistance (N/5cm) thickness 1,0 mm thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN 12316-2 EN 12317-2	≥ 200 > 455 > 455 > 680 > 815 > 900 break out joint	
Foldability at low temperature	EN 495-5	≤ -20°C	
Resistance to root	EN 13948	resistant	
Durability: Exposure to UV radiation, elevated temperature and water	EN 1297	no UV resistant	
Dangerous substances	-	conforms	

Essential characteristics	Test method	Performance	Harmonised technical specification
Reaction to fire	EN ISO 11925-2 EN 13501-1	E	EN 13967:2012
Water tightness at 2kPa and 60kPa	EN 1928 met. B	watertight	
Tear resistance (N) thickness 1,0 mm thickness 1,2 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 12310-1	> 180 > 225 > 280 > 350 > 375 > 410 > 460 > 560	
Joint strength (N/50mm) thickness 1,0 mm thickness 1,2 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 12317-2	> 450 > 540 > 675 > 855 > 900 > 990 > 1125 > 1350	
Resistance to impact (mm) thickness 1,0 mm thickness 1,2 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	≥ 350 ≥ 400 ≥ 450 ≥ 750 ≥ 750 ≥ 800 ≥ 1000 ≥ 1200	
Tensile properties: - Tensile strength (N/mm ²) longitudinal transverse - Elongation (%) longitudinal transverse	EN 12311-2	> 13 > 13 > 230 > 230	
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 EN 1847	watertight watertight	
Dangerous substances	-	conforms	

Essential characteristics	Test method	Performance	Harmonised technical specification
Tensile strength: - Longitudinal (MD) (N/mm ²) - Transversal (CMD) (N/mm ²)	EN ISO 527-3	> 14,1 (-1,05 N/mm ²) > 14,1 (-1,05 N/mm ²)	EN 13361:2013 EN 13362:2013
Resistance to static puncture (kN) thickness 1,2 mm thickness 1,5 mm thickness 1,8 mm thickness 2,0 mm	EN ISO 12236	> 1,06 (-0,06 kN) > 1,38 (-0,08 kN) > 1,60 (-0,10 kN) > 1,80 (-0,10 kN)	
Water permeability:	EN 14150	< 10⁻⁶m³m⁻²d⁻¹	
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking	EN 14575 ASTM D 5397	≤ 25 not applicable	
Dangerous substances	-	conforms	

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

