

FLAGON CS 1.5, 1.8 e 2.0 mm

PVC-P MEMBRANE FOR HYDRAULIC WORKS NOT EXPOSED

USE - APPLICATION

FLAGON CS is a thermoplastic membrane made of PVC-P specifically designed to waterproof hydraulic works not exposed to UV rays.

This membrane can contain fresh or salt water and low-concentration liquid chemicals. To verify the compatibility with the specific chemical liquids, please contact the technical office CIVILROCK (tech-office@flag.it).

The sheets are welded together by applying hot air or using hot wedge, with manual or automatic welder. The welding can be made either with a track that with double track. The double track allow to perform a pneumatic test with air.

FLAGON CS is compatible with all accessories and membranes in the FLAGON PVC range.



DESCRIPTION

FLAGON CS membrane is a synthetic multi-ply membrane in PVC-P made by co-extrusion. It is a different colour on each side:

- the upper surface (dark grey), which accounts for less than 20% of the total thickness, forms the "signal layer".
- the underside (black) is highly resistant to puncture and perforation by roots.

FLAGON CS is not UV resistant.

It's also available FLAGON CS/300, having a non-woven geotextile 300 g/m² coupled on the lower face of the membrane.

CIVILROCK attaches the highest importance to the quality of its products. This is why we operate a quality assurance system according to ISO 9001 BSI certified.

MAIN ADVANTAGES

- Excellent weldability
- High mechanical resistance
- High puncture resistance
- Resistance to perforation by roots
- Includes a signal layer
- Resistance to immersion in water with moderate chemical attack

SUGGESTED INSTALLATION EQUIPMENT

- Manual welding with hot air
- Automatic welding machine with hot air
- Automatic welding machine with double track

CIVILROCK reserves the right, as technology and know-how progress, to modify without warning the composition and conditions of use of its materials, and subsequently their price. As a result, orders shall only be accepted on the basis of the terms and technical specifications applicable at the time of receipt.



FLAG S.p.A. – SOPREMA GROUP

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Technical data sheet No WPSIT0026- I 7.0 I

Cancels and replaces WPSIT0026- I 4.04

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CHARACTERISTICS

	Standard	CS 1.5	CS 1.8	CS 2.0	EN 13361 and EN 13362
Tensile strength (N/mm ²)	EN 527-3		≥ 13 (L/T)		
Resistance to static puncture (N)	EN ISO 12236	> 1 300	> 1 500	> 1 700	
Water permeability	EN 14150		< 10 ⁻⁶ m ³ m ⁻² d ⁻¹		
Durability: Oxidation, variation in tensile properties (%)	EN 14575		≤ 25		

	Standard	CS 1.5	CS 1.8	CS 2.0
Thickness (mm)	EN 1849-2	1.5	1.8	2.0
Mass per unit area (kg/m ²)	EN 1849-2	2.03	2.43	2.70
Elongation at break (%)	EN 527-3		≥ 230	
Cold bending (°C)	EN 495-5		≤ - 20°C	
Water permeability after 6 hrs at 0.5Mpa	EN 1928 (B)		Watertight	
Resistance to perforation by roots	CEN TS14416		No perforation	
Resistance to static loading (kg)	EN 12730		≥ 20	
Resistance to thermal ageing in water: variation in tensile strength (%) mass loss (%)	EN 14415 (A et B)		< 25 < 5	

PRODUCTION STANDARD

	1.5	1.8	2.0
Thicknesses (mm)	1.5	1.8	2.0
Numbers of rolls on each pallet	23	18	18
Roll length / width	20 ml (other lengths available on request) / 2.10 m		
Colours available	Dark grey (surface) / Black (underside)		

CE MARKING

Unique identification code of the product-type: WPSIT0026.

FLAGON CS membranes are produced by the FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no.1085-CPR-0007 in accordance with EN 13361:2013 and EN 13362:2013.

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