

Formerly known as ICF FOUNDATION MEMBRANE by RESISTO

COLPHENE ICF



TECHNICAL DATA SHEET **260129SCANE**

(supersedes 250704SCANE)

DESCRIPTION

COLPHENE ICF is a self-adhesive membrane composed of SBS modified bitumen and a tri-laminated woven polyethylene facer. The underface is covered with a silicone release paper. COLPHENE ICF is designed for dampproofing and waterproofing of Insulated Concrete Forms (ICF) foundations.

The membrane is available in two versions: the summer version COLPHENE ICF and the winter version COLPHENE ICF LT.

RECOMMENDED SUBSTRATES

COLPHENE ICF is applied directly to the polystyrene surface of ICF foundations.

SURFACE PREPARATION

COLPHENE ICF can generally be installed without primer over clean, dry ICF surfaces requiring dampproofing. Consult your SOPREMA representative if COLPHENE ICF is intended to be used in areas requiring waterproofing (primer will be required) or if specific conditions call for the use of primer, such as high concentration of dust. If primer is required on ICF surfaces, use ELASTOCOL STICK H₂O water-based primer. Solvent-based primers may damage the polystyrene and therefore must not be used.

INSTALLATION

SELF-ADHESIVE

1. If needed, apply ELASTOCOL STICK H₂O primer at the rate of 0.1 to 0.3 L/m². Allow drying completely before the application of the membrane. Membrane must be applied the same day as the application of the primer.
2. Adhere the COLPHENE ICF membrane to the substrate by peeling off the silicone release paper. Side lap joints must be a minimum of 75 mm (3 in) and end lap joints must be a minimum of 150 mm (6 in).
3. When required, install fasteners with 25 mm (1 in) diameter washers, at a distance of 38 mm (1.5 in) from the top end of the membrane and spaced at 450 mm (18 in) o.c maximum.
4. Apply even pressure using a membrane roller over the entire surface of the membrane to ensure good adherence.
5. Seal the top edge as well as the termination of the membrane on the footing using a mastic or a sealant compatible with polystyrene, such as SOPRASEAL LM 200 T, ALSAN FLEX 2945, or Chem Link's M-1 sealant.
6. Backfill after membrane installation is completed. In areas where pit-run sand is not available, installation of a protection board is recommended prior to backfilling.

Application temperatures COLPHENE ICF LT: -10 to 10 °C (14 to 50 °F)
COLPHENE ICF: 10 to 50 °C (50 to 122 °F)

Service temperature : -45 to 70 °C (-49 to 158 °F)

RESTRICTION

COLPHENE ICF is designed to be used in below grade application only. It must not be used in above grade application.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.



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NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.
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GENERAL INFORMATION

Specifications	COLPHENE ICF & COLPHENE ICF LT
Thickness	1.0 mm (40 mils)
Dimensions	20.4 m x 0.91 m (66.9 ft x 36 in)
Weight	0.9 kg/m ² (0.2 lb/ft ²)
Selvedge width	75 mm (3 in)
Surface	Tri-laminated woven polyethylene
Underface	Silicone release paper
Roll per skid	36

PROPERTIES

Properties	Standards	COLPHENE ICF & COLPHENE ICF LT	
		MD	XD
Tensile strength	ASTM D5147	12.4 kN/m (70.8 lbf/in)	12.7 kN/m (72.5 lbf/in)
Ultimate elongation	ASTM D5147	52%	24%
Tear resistance	ASTM D5601	375 N (84 lbf)	400 N (90 lbf)
Flexibility at cold temperature	ASTM D5147	-30 °C (-22 °F)	
Static puncture	ASTM D5602	400 N (90 lbf)	
Lap adhesion	ASTM D1876	3 227 N/m (18.4 lbf/in)	
Peel resistance over ICF	ASTM D903	632 N/m (3.6 lbf/in)	
Water absorption	ASTM D5147	< 0.1%	
Water vapour permeance	ASTM E96 (Procedure B)	< 2.5 ng/Pa.s.m ² (< 0.04 perm)	
Termite resistance	Trinity/ERD report S10030SC.04.08	Pass	
Radon resistance ⁽¹⁾ , $\frac{R_{Rn}}{R_{Rn} 6 \text{ mils}}$ ($s \cdot m^{-1}$)	ISO DIS 11665-13	2.68 x 10 ⁸ 14.10 ⁽²⁾	

(All values are nominal)

For CCMC product evaluation see CCMC Evaluation listing 13630-R and 14080-R.

(1): Materials with higher radon resistance are considered less permeable to radon and can therefore more effectively prevent or reduce radon transmission.

(2): Under the test conditions, the radon resistance of the Colphene ICF membrane was 14.1 times greater than the radon resistance of a standard 0.025 mm (6 mils) thick polyethylene membrane.



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STORAGE AND HANDLING

- Rolls must be stored upright, with the selvedge side on top. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

TESTS, CERTIFICATIONS AND EVALUATIONS



FOR MORE INFORMATION, REFER TO THE INSTRUCTIONS ON THE LABEL AND RELEVANT SAFETY DATA SHEET (SDS).

