

COLPHENE ICF

Description: *COLPHENE ICF* is a self-adhesive waterproofing membrane dedicated to the waterproofing of Insulated Concrete Forms (ICF) foundations. It is composed of SBS modified bitumen and a polyethylene woven complex. A silicone release paper protects the adhesive side.

COLPHENE ICF can be applied directly to the polystyrene (expanded and extruded) surface of ICF foundations. Clean, dry and even surfaces generally do not require priming. If specific conditions call for the use of primer, such as dusty work sites, Soprema recommends using its water-based primer *ELASTOCOL STICK H₂O*. Solvent-based primers may damage polystyrene and therefore must not be used.

Application temperatures: Winter Grade: -10 to 40°C (14 to 104°F)
Summer Grade: 10 to 50°C (50 to 122°F)

Service temperatures: Winter and Summer Grades: -45 to 70°C (-49 to 158°F)

Installation: If needed, apply *ELASTOCOL STICK H₂O* primer at the rate of 0.1 to 0.3 L/m². Allow drying completely before application of the membrane. Membrane must be applied the same day as the application of primer.

The top edge of the membrane and where the membrane meets with the concrete footing, it must be sealed with a mastic/sealant such as *SOPRASEAL LM 200 T* which is compatible with polystyrene. For rocky soil, a protection board (e.g. *SOPRABOARD*, etc.) must be installed prior to backfilling.

Please consult Soprema for complete information on application and systems.

Limitation: *COLPHENE ICF* is designed to be used as waterproofing membrane in below grade application only. It must not be used in above grade application.

Membrane must be covered and backfilled after installation is completed.

Properties:

Properties	Standards	COLPHENE ICF	
		METRIC	IMPERIAL
Thickness	-	1.0 mm	40 mils
Dimension	-	22.9 x 0.91 m	75 ft x 36 in
Gross / Net coverage per roll	-	20.8 / 19.1 m ²	225 / 206 ft ²
Roll weight	-	20 kg	44 lb
Top face	-	Tri-laminated woven polyethylene	
Underface	-	Silicone release paper	
Tensile strength, MD/XD	ASTM D5147	11.3 / 15.4 kN/m	64 / 88 lbf/in
Ultimate elongation, MD/XD	ASTM D5147	52 / 24 %	
Flexibility at cold temperature	ASTM D5147	-30°C	-22°F
Static puncture	ASTM D5602	400 N	90 lb
Tear resistance, MD/XD	ASTM D1876	375 / 400 N	85 / 90 lbf
Lap adhesion	ASTM D1876	2000 N/m	11.4 lbf/in
Peel resistance	ASTM D903	3050 N/m	17.5 lbf/in
Water absorption	ASTM D5147	< 0.1 %	
Water vapour permeance	ASTM E96 (Procedure B)	< 0.90 ng/Pa.s.m ²	< 0.016 perm

(All values are nominal)