



WATERPROOFING

APPLICATIONS

FOUNDATIONS

COLPHENE ICF

TECHNICAL DATA SHEET 200616SCANE

(supersedes 180116SCANE)

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 damproofing and waterproofing of Insulated Concrete Forms (ICF) foundations.

RECOMMENDED SUBSTRATE

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 damproofing. 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

COLPHENE ICF membrane must be adhered to substrate by peeling off the silicone release paper.

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.

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).

When required, install fasteners with 25-mm (1-inch) diameter washers at a distance of 38 mm (1 ½ in) from the top end of the membrane and spaced at 450 mm (18 in) o.c maximum.

The top edge of the membrane and where the membrane meets with the concrete footing must be sealed with a mastic/sealant such as SOPRASEAL LM 200 T which is compatible with polystyrene.

Apply even pressure using a membrane roller over the entire surface of the membrane to ensure good adherence.

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: Winter Grade: -10 to 10 °C (14 to 50 °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)

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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PACKAGING

| Specifications | COLPHENE ICF |
|----------------|---|
| Thickness | 1.0 mm (40 mil) |
| Dimensions | 22.9 x 0.91 m (75 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 |

(All values are nominal)

PROPERTIES

| Properties | Standards | COLPHENE ICF |
|---------------------------------|---|--|
| 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 lbf) |
| Tear Resistance, MD/XD | ASTM D5601 | 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) | < 2.5 ng/Pa.s.m ² (< 0.04 perm) |
| Termite Resistance | See Trinity/ERD report # S10030SC.04.08 | Pass |

*See Evaluation Report CCMC 13630-R (for waterproofing) and Evaluation Report CCMC 14080-R (for dampproofing).
(All values are nominal)

STORAGE AND HANDLING

Rolls must be stored upright. If the product is stored outdoors, cover them with an opaque protective cover after the removal of the delivery packaging.



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