



1.877.MAMMOUTH
www.soprema.ca

(Formerly known as Colphene BSW Flam)

COLPHENE BSW H

TECHNICAL DATA SHEET
150105SCAN1E
(supersedes 140730SCAN3E)

DESCRIPTION

COLPHENE BSW H is a high-performance waterproofing membrane composed of SBS modified bitumen and a non-woven polyester reinforcement. The surface is sanded, while the underface is covered with a thermofusible plastic film. **COLPHENE BSW H** is designed for horizontal blind side waterproofing applications.

APPLICATION

HEAT-WELDED

COLPHENE BSW H membrane is installed loose laid on the concrete slab or compacted soil.

To prevent overly thick membranes, stagger the end laps by a minimum of 300 mm (12 in).

Side lap joints must be a minimum of 100 mm (4 in) and end lap joints must be a minimum of 150 mm (6 in).

Membranes overlaps are sealed, by heat-welding, with a propane torch or using an electric hot-air welder.

All angle changes (inside and outside corners) and others details must be reinforced by heat-welding an additional 300 mm (12 in) piece of **COLPHENE BSW H** centered on the angle.

It is recommended to install **COLPHENE BSW PROTECT'R**, as a protection layer, over the **COLPHENE BSW H** prior to placement of the reinforcement steel bars and pouring of the concrete slab.

DUO SELVEDGE

Over the entire width of **DUO SELVEDGE**, 50 % of the surface is covered with exposed sticky bitumen. The remaining surface of the selvedge (50 %) is covered by a thermofusible plastic film to seal overlap by heat-welding with a propane torch or with the **SOPRAMATIC** automatic hot-air welder.

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

PACKAGING

| Specifications | COLPHENE BSW H |
|----------------|---|
| Thickness | 3.5 mm (140 mil) |
| Reinforcement | Non-woven polyester |
| Dimensions | 1 m x 10 m (3.3 pi x 33 ft) |
| Weight | 4.3 kg/m ² (0.9 lb/ft ²) |
| Selvedge width | 100 mm (4 in) |
| Surface | Sanded |
| Underface | Thermofusible plastic film |
| Rolls per skid | 25 |

(All values are nominal, variations $\pm 15\%$)





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PROPERTIES

| Properties | Standards | COLPHENE BSW H |
|--|---|--------------------------------|
| Tensile strength at peak load, MD/XD | ASTM D5147 | 17 / 11.5 kN/m |
| Elongation at break, MD/XD | ASTM D5147 | 60 / 65 % |
| Tear strength, MD/XD | ASTM D5147 | 600 N / 400 N |
| Low temperature flexibility | ASTM D5147 | Unaffected at -20 °C (-4 °F) |
| Puncture resistance | ASTM E154 | 1050 N (236 lbf) |
| Water vapour permeance | ASTM E96 (Method B) | < 2.1 ng / Pa•s•m ² |
| Water absorption | ASTM D570 @ 24 hours | < 0.5 % |
| Adhesion to poured concrete, 22 °C (72 °F) | ASTM D903 modified (Peeled at 50 mm/min) | 3400 N/m (19.4 lbf/in) |
| Resistance to hydrostatic head | ASTM D5385 | > 110 m (> 360 ft) |
| Lateral water migration | ASTM D5385 modified | > 110 m (> 360 ft) |

(All values are subject to variation not exceeding 15%)

STORAGE AND HANDLING

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

