



WATERPROOFING

APPLICATIONS

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# COLPHENE

## BSW V (Formely know as COLPHENE BSW)

TECHNICAL DATA SHEET 210413SCANE

(supersedes 200616SCANE)

### DESCRIPTION

COLPHENE BSW V is a high-performance waterproofing membrane composed of SBS modified bitumen and a composite reinforcement. The surface is sanded, while the underface is covered with a silicone release film. COLPHENE BSW V is designed for vertical blindside waterproofing applications.

### INSTALLATION

#### SELF-ADHESIVE

COLPHENE BSW V is installed in vertical strips of 5 m (16 ft) maximum onto acceptable substrate. COLPHENE BSW V membrane is adhered to substrate by peeling off the silicone release film.

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).

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

Membranes overlaps are sealed, by heat-welding, with a propane torch or using an electric hot-air welder. The uppermost edge of each strip must be mechanically fastened to substrate using round plates of 50 mm (2 in) diameter and appropriate fasteners for base material every 300 mm (12 in) on center.

Application temperature: Above -10 °C (14 °F)

UV exposure: up to 60 days

#### 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 using an electric hot-air welder.

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

### PACKAGING

Specifications	COLPHENE BSW V
Thickness	3.0 mm (120 mil)
Reinforcement	Composite
Dimensions	1 m x 10 m (3.3 ft x 33 ft)
Weight	3.5 kg/m <sup>2</sup> (0.7 lb/ft <sup>2</sup> )
Selvedge width	100 mm (4 in)
Surface	Sanded
Underface	Silicone release film
Rolls per skid	30

(All values are nominal, variations ± 15 %)



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### PROPERTIES

Properties	Standards	COLPHENE BSW V
Tensile strength at peak load, MD/XD	ASTM D5147	15 / 13.5 kN/m
Elongation at break, MD/XD	ASTM D5147	60 / 65 %
Tear strength, MD/XD	ASTM D5147	575 N / 500 N
Low temperature flexibility	ASTM D5147	Unaffected at -20 °C (-4 °F)
Puncture resistance	ASTM E154	1100 N (247 lbf)
Water vapour permeance	ASTM E96 (Method B)	< 2.5 ng / Pa•s•m <sup>2</sup> (< 0.04 perm)
Water absorption	ASTM D570 @ 24 hours	< 0.5 %
Adhesion to poured concrete, 22 °C (72 °F)	ASTM D903 modified (Peeled at 50 mm/min)	4200 N/m (23.9 lbf/in)
Resistance to hydrostatic head	ASTM D5385	> 110 m (> 360 ft)
Lateral water migration	ASTM D5385 modified	> 110 m (> 360 ft)
Gas permeability (methane) - (cm <sup>2</sup> / s @ 1 atm) - (cm <sup>3</sup> x cm / cm <sup>2</sup> x s x Pa)	ASTM D1434	4.12 x 10 <sup>-7</sup> 4.06 x 10 <sup>-12</sup>
Volume resistivity (ohms-cm)	ASTM D257	1.57 x 10 <sup>14</sup>

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

### RADON RESISTANCE

Product	Standard	Radon Resistance $R_{Rn}^*$ (s•m <sup>-1</sup> )	$R_{Rn} / R_{Rn6mil}$
6 mil polyethylene membrane	ISO DIS 11665-10	1.90E+07	1.00
Colphene BSW V	ISO DIS 11665-10	2.95E+08	15.53

\* Materials with a higher radon resistance are considered less permeable to radon and therefore can prevent or reduce radon ingress more effectively.  
Under the test conditions, the radon resistance of Colphene BSW V membrane was 15.53 times higher than the radon resistance of 6 mil polyethylene membrane.

### STORAGE AND HANDLING

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



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