COLPHENE BSW H

Waterproofing membrane

July 2026

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 blindside waterproofing applications.

BRANZ Appraised
Appraisal No. 1037

PACKAGING:

Specifications	COLPHENE BSW H
Thickness	3.5 mm
Reinforcement	Non-woven polyester
Dimensions	1 x 10 m
Weight	4.3 kg/m²
Selvage width	100 mm
Surface	Sanded
Underface	Thermofusible plastic film
Qty/Pallet	25

TECHNICAL DATA:

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
Puncture resistance	ASTM E154	1050 N
Water vapour permeability	ASTM E96 (Method B)	< 2.5 ng/Pa·s·m²
Water absorption	ASTM D570 @ 24 hours	< 0.5%
Adhesion to poured concrete, 22°C	ASTM D903 modified (Peeled at 50mm/min)	3400 N/m
Resistance to hydrostatic head	ASTM D5385	> 110 m
Lateral water migration	ASTM D5385 modified	> 100 m

APPLICATION:
HEAT-WELDED
COLPHENE BSW H membrane is installed loose laid on the concrete work slab or on a protection board over prepared and well compacted soil. To prevent overly thick membranes, stagger the end laps by a minimum of 300 mm. Side lap joints must be a minimum of 100 mm and end lap joints must be a minimum of 150 mm.

Membrane 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 other details must be reinforced by heat-welding an additional 300 mm piece of COLPHENE BSW H centred on the angle.

masterspec partner
4131EB Equus Soprema Colphene Tanking Membrane

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APPLICATION:
DUO SELVEDGE
Over the entire width of DUO SELVAGE, 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.

UV exposure: up to 60 days.

SCOPE OF USE:
COLPHENE BSW H is used as waterproofing membrane for foundations and other below ground horizontal surfaces with low to high risk of hydrostatic water pressure against concrete and masonry substrates. The membrane can be overlaid with an Equus approved drainage mat for protection. The membrane can be used in vertical underground applications, but it is generally recommended that COLPHENE BSW V is used for vertical application due to ease of installation.

Suitable for other waterproofing applications with written approval by Equus Industries Ltd.

CONDITIONS OF USE:
Written approval is required for this membrane to be used on a substrate or in a waterproofing system not outlined in the standard Equus specifications. The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries Ltd. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

BUILDING CODE COMPLIANCE:
B2 Durability - B2.3.1 (a), COLPHENE BSW H has a durability of at least 50 years where used underground when installed with the correct specification, installation and maintenance. See BRANZ Appraisal 1037.

E2 External moisture - E2.3.2, E2.3.3, E2.3.7 Test data, together with in-service history in New Zealand and internationally, of the correctly installed COLPHENE BSW H membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 1037.

F2 Hazardous building materials - F2.3.1 Well known experience with the type of materials used together with in-service history, show that COLPHENE BSW H complies with this performance requirement. Refer to SDS at www.equus.nz.

SUPPORTING DOCUMENTATION:
Can be found at: www.equus.nz

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.

HEALTH AND SAFETY:
For more information, please refer to the relevant Safety Data Sheet.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No

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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Canada
Legal and trading name of manufacturer	Soprema New Zealand Limited
Manufacturer address for service	Level 3, Candida Building 4, 61 Constellation Drive, Mairangi Bay, Auckland 0630, New Zealand
Manufacturer website	www.soprema.com.au
Manufacturer email	info@soprema.com.au
Manufacturer phone number	+61 3 9221 6230
Manufacturer NZBN	9429050312962

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