



# EQUUS SOPREMA COLPHENE 3000 TANKING SYSTEM

Standard Building Consent Package



CELEBRATING

**40** YEARS

1982-2022



AUTHORISED DISTRIBUTOR

**SOPREMA**

MAY 2024

## **CONTENTS**

Brochure	3
Specifications	
P5300 COLPHENE 3000 Below Ground Waterproofing	5
Quality Assurance	
P5300 COLPHENE 3000 Below Ground Waterproofing	8
Compliance	
BRANZ Appraisal No. 1037	10
Reference Sheet	17
Technical Data Sheets	18
Standard Details	29

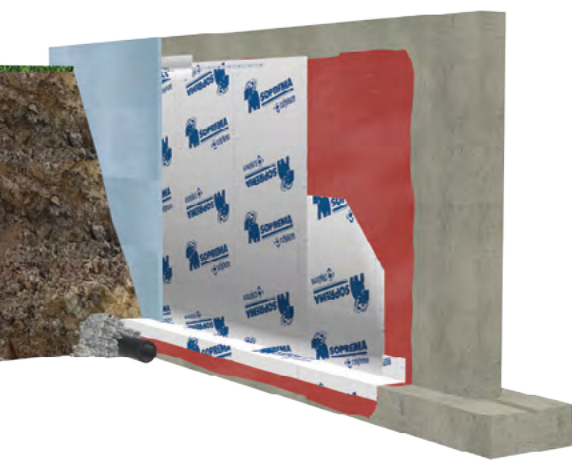


WATERPROOFING

# COLPHENE<sup>®</sup> 3000 FOUNDATIONS



## SELF-ADHESIVE WATERPROOFING MEMBRANE FOR FOUNDATIONS



COLPHENE 3000 self-adhesive membrane is made from the most reliable SBS modified bitumen in the industry and has a tri-laminated woven polyethylene facer. It is extremely flexible, easy to handle, and fits easily around the sharp contours and angles of concrete footings and foundations. Colphene 3000 is the perfect solution for below grade and foundation wall waterproofing as part of the Equus SOPREMA DeboFlex Special Tanking System.

- Superior flexibility
- Puncture resistant with high tensile strength
- Consistent thickness

### SURFACE PREPARATION

COLPHENE 3000 must always be installed on clean, dry, solid substrates, which have been primed before application with Equus Peel and Stick primer (solvent- or water based).

### ACCESSORIES

#### Equus Peel and Stick primer

Used to prepare surfaces before the installation of COLPHENE 3000 membrane.

#### Alsan Mastic 2200

Bituminous sealant used to fill joints and to seal the termination profile.

#### Termination Profile

Mechanically fastened profile to terminate COLPHENE 3000 membrane.

#### Drainage and Protection layer

Drainage sheet installed on top of the COLPHENE 3000 membrane after installation.

COLPHENE 3000	
THICKNESS	1.5 mm
DIMENSIONS	1m x 18.7m
SURFACE	Tri-laminated woven polyethylene
UNDERFACE	Silicone release film



## INSTALLATION INSTRUCTIONS

1



Prime the substrate with Equus Peel and Stick primer (solvent- or water-based)

2



Peel back the top part of the silicone release film. Adhere COLPHENE 3000 to the substrate, making sure the membrane is well aligned.

3



Gradually peel back the remaining silicone release film, making sure the membrane is completely adhered.

The use of a hand roller is required to remove air pockets.

4



Use a Termination Bar and Alsan Mastic 2200 to seal details and critical areas. The use of an Equus approved protection and drainage board is recommended before backfilling to ensure the integrity of the waterproofing membrane.

5



Completed waterproofing project.

If you have any questions about this product or its installation, please contact Equus, your SOPREMA Authorised Distributor.

  
BRANZ Appraised  
Appraisal No. 1037 (2023)

   
AUTHORISED DISTRIBUTOR  
**SOPREMA**

[www.equus.nz](http://www.equus.nz)

[info@equus.nz](mailto:info@equus.nz)



CELEBRATING  
**40**  
YEARS  
1982-2022

# Specification

WATERTIGHT TECHNOLOGY

COATINGS & SILICATE SYSTEMS

FLOORING TECHNOLOGY

## Standard Specification for the application of EQUUS SOPREMA COLPHENE 3000 below-ground, self-adhesive wall waterproofing membrane to concrete or masonry wall surfaces.

*For low-risk areas of hydrostatic water pressure up to 3 metres deep.*

Project:  
Specification: P5300  
Date: February 2023  
Page 1 of 3

### 1.0 PREAMBLE:

This specification is for the application of **EQUUS SOPREMA COLPHENE 3000** waterproofing membrane to below ground concrete structures and screed protected areas in construction.

**COLPHENE 3000** has been especially designed for waterproofing of foundation walls with low risk of hydrostatic water pressure with a standing head of water not more than 3 metres deep. **COLPHENE 3000** is BRANZ appraised as a waterproofing tanking material for below ground applications.

**Note:** *If existing ground water levels are higher than 3 metres above the floor of the basement, consult Equus Industries Ltd for a specific recommendation.*

The **COLPHENE 3000** self-adhered membrane uses a primer on in-situ concrete or block walls. Use a roller to ensure all overlaps are well sealed. Overlaps can also be carefully heated and sealed using hot-air welding, particularly in cold temperatures.

Standard details by Equus show all connections and junctions.

### 2.0 SURFACE PREPARATION:

#### 2.1 General Responsibility:

Unless expressly agreed otherwise at time of contract pricing, all work in this section shall be the responsibility of the Main Contractor, whether carried out by his own staff, other sub-trades, or the membrane Sub-Contractor.

#### 2.2 Concrete Preparation:

Concrete structures must be specifically engineered to meet the requirements of the New Zealand Building Code.

When applying to existing substrates and structures, they must be thoroughly inspected to ensure that they will not affect the performance of the membrane when applied.

For post-application of membranes, curing times may vary dependent on location, mixes and climate conditions. After the wall has been poured allow sufficient drying time, generally between 14 – 28 days. To verify concrete has sufficiently dried, a measurement can be taken using a hygrometer. A maximum relative humidity of 75% is required, measured at the time of membrane application. This process is essential when installing **COLPHENE 3000**.

It is recommended that concrete curing compounds are not used. Consult Equus Industries Ltd for a recommendation prior to use if specified by others. Any traces of such compound must be gone or removed before membrane work begins.

The information contained in this Specification is based on our experience and testing and represents the latest information available at the date of production. No responsibility is taken for uses to which this information may be put, but we advise that where application of products and processes is in complete conformity with this Specification an appropriate warranty may be available. We reserve the right to alter or update information parameters and formulations at any time without prior notice.

E: info@equus.nz



Page 2 of 3  
P5300

## Specification

The concrete shall be finished to NZS3114:1987 U3, with a light trowel texture.  
The concrete shall have all ridges and protrusions stoned flush.

### 3.0 MEMBRANE APPLICATION:

**Note:** Install **COLPHENE 3000** only in fair weather conditions with a substrate temperature above 10°C. In conditions where the temperature may be lower, the use of hot air against the membrane may be required for detailing and edge laps to ensure watertightness.

#### 3.1 Tanking: Vertical wall application

All vertical areas such as foundation walls are fully primed with **Equus Peel and Stick Primer** at a spreading rate of 6 to 8 m<sup>2</sup>/L depending on the porosity of the substrate. Allow to dry for a minimum 1 hour depending upon prevailing weather conditions.

Extra strips of **COLPHENE 3000** membrane shall be used to reinforce all internal and external corners. These are also required at floor and wall junctions to connect to the DPM extending up from below the floor slab where required. **COLPHENE 3000** self-adhesive membrane is installed by removing the siliconized film and pressing the membrane into place on the primed surface. Use a soft broom or roller to ensure there are no trapped air bubbles under the membrane and that it is well bonded to the surface. Heat, preferably by hot air, is used on all connections and laps to ensure they are fully waterproof. Ensure all membrane laps are well sealed with a minimum side lap of 75mm and minimum end-lap of 150mm.

#### 3.2 Insulation: (vertical against walls where required)

Install Equus supplied thermal insulation against **COLPHENE 3000** membrane, held in place with dots of **DOUBLESTICK** tape. **Equus drainage layer** will then be installed over top of the insulation.

#### 3.3 Repairs to damaged areas:

Should the **COLPHENE 3000** be damaged or perforated after installation such that its waterproofing qualities are affected, repairs can be made using a piece of **COLPHENE 3000** of suitable size to cover the damaged area. The patch shall have a minimum overlap extending out 150mm on all sides of the damaged section.

**Note:** The main contractor shall immediately notify the waterproofing contractor if any such damage occurs, so it can be repaired before further construction works take place.

#### 3.4 Backfilling: (Walls)

The membrane must be protected from damage by abrasive materials and expansive soils in the ground over its lifetime and especially during back filling. It is also useful to reduce excessive hydrostatic pressure on the membrane itself. This can be achieved by installing Equus thermal insulation and Equus approved protection and drainage layer after membrane installation.

The drainage layer is installed over the finished membrane prior to backfilling and shall be kept in place using Equus termination bars and **SOPRASEAL** sealant to spot stick the drainage layer to the membrane and seal the top of the termination bar.

Ensure a drain coil with a minimum diameter of 100mm (incorporating a filter material) is installed at the base of the foundation prior to backfilling. The drain is required to discharge to an approved outlet. Installation shall be in accordance with E2/AS1 External Moisture of the New Zealand Building Code with provision for cleaning.

Free draining granular backfill is required behind the tanked wall and around the drain coil to allow the free flow of water to the drain. An impervious ground cover is required above the backfilled area to redirect surface water away from the building. Minimum fall shall be 1:30.

The information contained in this Specification is based on our experience and testing and represents the latest information available at the date of production. No responsibility is taken for uses to which this information may be put, but we advise that where application of products and processes is in complete conformity with this Specification an appropriate warranty may be available. We reserve the right to alter or update information parameters and formulations at any time without prior notice.  
E: info@equus.nz



Page 3 of 3  
P5300

## Specification

Equus Industries Limited must be consulted regarding the design and suitability of membrane protection layers.

### 3.5 Penetrations:

This shall include all outlets and pipe penetrations through the wall. This can be carried out before, during or in some cases after laying of the membrane depending on the detail type. All detailing shall be done in accordance with the manufacturer's technical literature.

### 3.6 Sealant:

**ALSAN MASTIC 2200** or **SOPRASEAL** shall be used for detailing membrane edges and termination bars.

### 3.7 Waterstops:

For cold joints and floor /wall junctions where required, **Equus Swellseal, Aquafin CJ4 or Aquafin CJ6** waterstops can be used. Consult Equus Industries Ltd for a recommendation if required.

## 4.0 MAINTENANCE AND WARRANTY:

### 4.1 Maintenance:

Equus Industries Limited recommends as normal maintenance, a certified installer inspect annually to ensure weather tightness and durability of the following areas;

The top edge of the membrane sheet, sheet protection at that top edge, the subsoil drainage is not blocked and is free draining to an approved outlet.

Check all associated building elements that can impact on the durability of the membrane.

### 4.2 Warranty:

The **EQUUS SOPREMA COLPHENE 3000** waterproofing membrane as detailed in this specification, the product may be warranted for the period of up to twenty (20) years from the date the application is completed.

- a) All specified work is carried out by the approved Equus Industries Ltd. Applicator.
- b) **EQUUS SOPREMA COLPHENE 3000** must be installed in accordance with the manufacturer's technical literature.
- c) The warranty is issued in conjunction with the appropriate maintenance statement.

The period of warranty is determined by the situation of the installation. The warranty period shall be determined for any contract in consultation with the Manufacturer or his representative.

The warranty is provided to the client by the Equus Certified Applicator carrying out the work and is backed by the Manufacturer as to the fitness for the purpose of the materials supplied for the contract.

--oo0oo--



# EQUUS SOPREMA COLPHENE 3000

Below-ground single layer self adhesive waterproofing for areas with hydrostatic water pressure up to 3m deep

Specification No: P5300

Date Prepared: February 2023

Project & Address: \_\_\_\_\_  
\_\_\_\_\_

Certified Applicator: \_\_\_\_\_

Building Contractor: \_\_\_\_\_

Building Owner/Property Manager: \_\_\_\_\_

## 1. Statement of Intent

- (a) This checklist is to be completed by both the Equus Applicator and the Building Contractor, as a step by step record of compliance with both the Equus Specification provided for the contract, and the requirements of the Manufacturers for Warranty.
- (b) A copy of this checklist must be forwarded to the nearest Regional Office of Equus Industries Ltd. A Warranty will not be issued by Equus Industries Ltd. without a copy of this Checklist being filed.
- (a) A copy of this checklist should form part of the Contract Documentation filed with the Property Manager on job completion.

## 2. Areas Treated

The areas to which Membrane is applied are detailed below, with reference to plans (where appropriate).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 3. Sign Off

We confirm that all applicable processes listed in Section 4 have been correctly completed and that sign off on each stage has been made by a person with the authority to do so.

For: \_\_\_\_\_ (Signature)  
(Building Contractor)

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (Name)

For: \_\_\_\_\_ (Signature)  
(Equus Applicator)

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ (Name)





#### 4. Checklist And Method Statement

\* Denotes those processes which must be signed off by the Building Contractor as well.

No.	Process	Completed On	Building Contractor	Equus Contractor	Notes
1.	Concrete and other surfaces satisfactory for installation of <b>COLPHENE 3000</b> by Equus Certified Applicator.				
2.	All vertical areas such as foundation walls shall be primed with <b>Equus Peel and Stick Primer</b> at a rate of 6 to 8 m <sup>2</sup> /L and allowed to dry for minimum 1 hour.				
3.	Apply <b>COLPHENE 3000</b> reinforcement strip to in all internal and external corners and connections between floor and wall areas.				
4.	Apply <b>COLPHENE 3000</b> self-adhesive membrane to walls by removing the siliconized film and pressing against the primed surface.				
5.	Heat weld all sheet joints by hot air welder if required and ensure all are well sealed. Including end joints. Ensure a minimum of 75mm overlap at all connections.				
6.	(where required) Install vertical Equus Thermal Insulation against <b>COLPHENE 3000</b> membrane, held in place by dots of <b>DOUBLE-STICK</b> tape.				
7.	Inspection of all areas before Equus drainage layer installation.				
8.	Areas that have been perforated or damaged to be repaired by self-adhering a piece of <b>COLPHENE 3000</b> including a minimum 150mm overlap.				
9.	Waterstops placed where required. Cold joins and stitch joins.				
10.	Install <b>Equus drainage layer</b> against <b>COLPHENE 3000</b> , and secure with <b>Equus Termination Bar</b> and <b>SOPRASEAL</b> sealant..				
11.*	Final Inspection required prior to back filling.				

Equus Industries Ltd  
PO Box 601  
Blenheim  
Phone: 03 578 0214  
Email: admin@equus.nz  
www.equus.nz



**BRANZ Appraised**

Appraisal No. 1037 [2023]

**COLPHENE BSW  
TANKING MEMBRANE  
SYSTEM**

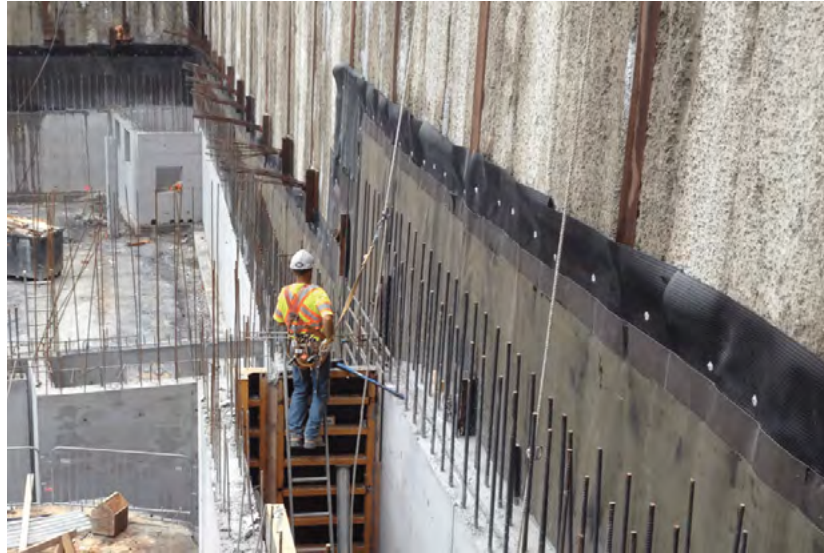
*[previously known as  
DeboFlex 3.5 CS/F K180 Special]*

**Appraisal No. 1037 [2023]**

This Appraisal replaces BRANZ  
Appraisal No. 1037 [2018]

**BRANZ Appraisals**

Technical Assessments of  
products for building and  
construction.



**Soprema NV**

Belgium

Web: [www.soprema.com.au](http://www.soprema.com.au)

**Marketed by:**



**Equus Industries Ltd**

Auckland: 09 415 4314

Wellington: 04 576 0333

Christchurch: 03 353 2434

Web: [www.equus.nz](http://www.equus.nz)



**BRANZ**

**BRANZ**

1222 Moonshine Rd,

RD1, Porirua 5381

Private Bag 50 908

Porirua 5240,

New Zealand

Tel: 04 237 1170

[branz.co.nz](http://branz.co.nz)



**Product**

1.1 Colphene BSW Tanking Membrane System incorporates pre-applied, torch-applied or self-adhered tanking membranes for basement retaining walls and floors. The membranes are applied under floor slabs and foundations and to the exterior face of basement retaining walls to prevent liquid water or water vapour penetrating to the interior face in spaces where moisture may cause damage.

**Scope**

- 2.1 Colphene BSW Tanking Membrane System has been appraised for use as a damp-proof membrane [DPM] within the following scope:
  - on buildings subject to non-specific design under floor slabs complying with NZS 3604 and behind concrete masonry basement walls and under floor slabs complying with NZS 4229; and,
  - in buildings subject to specific design with substrates of in-situ or precast concrete complying with NZS 3101 or concrete masonry complying with NZS 4230 and NZS 4210; and,
  - where subsoil drainage and free draining granular backfill has been placed behind basement walls.
- 2.2 Colphene BSW Tanking Membrane System has also been appraised for use as a pre-applied tanking membrane within the following scope:
  - on buildings subject to specific design with substrates of in-situ or precast concrete complying with NZS 3101; and,
  - where the membrane is subject to hydrostatic pressure with the pressure not to exceed 2 bar [20 metres head of water].
- 2.3 Colphene BSW Tanking Membrane System must be adequately protected against damage during backfilling and in service.
- 2.4 The system must be installed by Equus Industries Ltd certified applicators.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM

## Building Regulations

### New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Colphene BSW Tanking Membrane System, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

**Clause B2 DURABILITY:** Performance B2.3.1 [a] not less than 50 years. Colphene BSW Tanking Membrane System meets this requirement. See Paragraph 11.1.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.3. Colphene BSW Tanking Membrane System meets this requirement. See Paragraphs 13.1-13.3.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Colphene BSW Tanking Membrane System meets this requirement.

## Technical Specification

4.1 Materials supplied by Equus Industries Ltd are as follows:

- **Colphene BSW H** is a pre-applied, torch on, SBS-modified bitumen-based membrane. It is supplied in a roll 3.5 mm thick, 1 m wide and 10 m long.
- **Colphene Self-Adhesive** is a post-applied SBS-modified bitumen-based membrane combined with a tri-laminated woven polyethylene facer or cross laminated HDPE film. It is 1.5 mm thick, 1 m wide and 18.7 m long.
- **Colphene BSW V** is a pre-applied or post-applied SBS-modified bitumen-based membrane. It is supplied in a roll 3 mm thick, 1 m wide and 10 m long.
- **Sopradere Quick** is a solvent-based bituminous varnish used to prime dry and porous substrates. It is supplied in 25 L containers.
- **Alsan Mastic 2200** is a black bituminous sealant with permanent flexibility to seal penetrations, terminations and other details. It is supplied as a black paste in 310 ml cartridges.
- **Soprema drainage layer (SOPRADRAIN/DRENTEx)** is a drainage and filter layer used to protect the membrane prior to backfill. It is supplied in rolls 7.3 mm thick, 2.1 m wide and 20 m long.
- **Aquafin®-2 K/M** is a two-component waterproofing coating used for detailing the top edge termination of the Colphene membrane above ground. It is supplied as Part A [powder] and Part B [polymer].
- **Matacryn® Manual** is a highly elastic, heavy duty seamless waterproofing membrane used for detailing the top edge termination of the Colphene membrane above ground. It is supplied in 30 kg units.
- **Aquadere Stick** is a water-based bitumen varnish. It is used to prime dry and porous substrates. It is supplied in 25 L containers.
- **Equus Peel & Stick Primer** is a rubber-based adhesive to adhere self-adhesive waterproofing membranes.
- **Alsan Flashing** is a single-component, polyurethane and bitumen-based waterproofing coating for sealing around penetrations and terminations.
- **Bitumen Angle Fillets** are pre-manufactured triangular angle fillets used between horizontal vertical transitions.
- **Shrink Sleeves** are PVC accessories for sealing penetrations. They are supplied in various diameters from 18 mm to 128 mm.
- **Danodren H15 Plus** is a nodular sheet composed of high density polyethylene (HDPE) and joined to a non-woven geotextile of calendared polypropylene used as a drainage and protection for the Colphene membrane. It is supplied in rolls 20 m long and 2.1 m wide.
- **Alsan Flashing Quadro** is a single-component, root-resistant polyurethane resin used in combination with Alsan Fleece reinforcement for detailing where root resistance is required.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM

## Handling and Storage

- 5.1 Handling and storage of all materials, whether on-site or off-site, is under the control of the installer. Dry storage must be provided for all products and the membranes must be protected from sunlight and ultraviolet (UV) radiation. Rolls of membrane must be stored on end.

## Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
- Technical Literature for Colphene BSW Tanking Membrane: Soprema Foundation Guide Bituminous Membranes – 2021 edition.
- 6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

## Design Information

### General

- 7.1 Colphene BSW Tanking Membrane System incorporates waterproofing membranes that can be pre-applied or post-applied.

### Substrate Design - Pre-Applied Tanking and DPM

- 8.1 Colphene BSW Tanking Membranes are pre-applied to surfaces before fixing of reinforcing steel and before concreting. For floors, the membrane is applied to site concrete. For walls, it is applied to either permanent formwork or removable double-faced formwork.

### Substrate Design - Post-Applied Tanking and DPM

#### Walls

- 9.1 Substrate design must be in accordance with the NZBC to a relevant standard, such as NZS 3101 for concrete, and NZS 4229 or NZS 4230 for concrete masonry.
- 9.2 The substrate must have a surface finish that is smooth, clean and free from defects or irregularities which may damage the membrane or allow water to trap behind the membrane.

#### Control Joints

- 9.3 Where control or construction joints are formed in the substrate, Equus Industries Ltd must be consulted for use of the membrane over these joints.

#### Concrete Slab-on-ground

- 9.4 The membrane must be laid on a minimum of 75 mm thickness of site concrete or well compacted sand. The structural concrete slab placed over the membranes must be a minimum of 100 mm thick.

## Backfilling and Drainage

- 10.1 The membranes must be protected against damage by the placement of a protection material between the membrane and the granular fill.
- 10.2 The minimum requirement for backfilling is that a granular, free-draining material is used with the top of the backfill capped with an impervious clay fill that may be covered with topsoil if required. The impervious capping and topsoil must slope away from the wall.
- 10.3 A minimum 100 mm diameter subsoil perforated drainage pipe must be installed at the bottom of the wall. The pipe must be covered with a geotextile filter fabric, be laid at a minimum 1:200 fall and discharge to a drainage outlet. Provision for cleaning the pipe must also be provided.
- 10.4 Backfilling should begin as soon as possible.
- 10.5 Colphene BSW Tanking Membranes can also be pre-applied DPM/tanking membranes on specifically designed substrates. When the pre-applied option is used, there is no backfilling required.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM

## Durability

### Serviceable Life

- 11.1 The Colphene BSW Tanking Membrane System is expected to have a serviceable life of at least 50 years provided it is installed and maintained in accordance with this Appraisal and continually protected from sunlight and UV radiation.

## Maintenance

- 12.1 Annual inspections must be made of the membranes' top edge seal and protection, the backfill capping, and the drainage pipe, to ensure all are functioning as originally designed.
- 12.2 If required, the drainage pipe must be cleared to remove any sediment or silt build-up. The slope of the backfill capping must be maintained at all times.

## External Moisture

- 13.1 The Colphene BSW Tanking Membrane System, when installed in accordance with this Appraisal and the Technical Literature, will prevent water vapour [DPM] and water [tanking] from penetrating to the interior face of basement retaining walls and floors in spaces where moisture may cause damage. The membranes have a vapour flow resistance of not less than 90 MN s/g.
- 13.2 The membranes can be used to form sealed joints and to seal penetrations. The top edge of the membrane must be sealed to the wall as set out in the Technical Literature and protected.
- 13.3 Building designers must ensure junctions with other membranes, such as at the floor/wall junction, form a waterproof joint. These junctions have not been assessed and are outside the scope of this Appraisal.

## Installation Information

### Installation Skill Level Requirement

- 14.1 All design and building work must be carried out in accordance with the Colphene BSW Tanking Membrane System Technical Literature and this Appraisal. All building work must be undertaken by Equus Industries Ltd certified applicators. Where the work involves Restricted Building Work this must also be completed by, or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant License Class.

### System Installation – Post-Applied

#### Substrate Preparation

- 15.1 All vertical surfaces must be checked to ensure they are dry, clean, smooth and free from sharp edges, loose or foreign materials, oil, grease or other deleterious material that may affect adhesion or may damage the membranes.

#### Priming

- 15.2 All substrates must be primed before application of the membranes. The supplier of the membranes, Equus Industries Ltd, should be contacted to confirm the most suitable primer. Application instructions for the primers are contained in the technical data sheets.

#### Membrane Installation – Walls

- 15.3 Starting at the lowest point, the membrane must be installed in accordance with the Technical Literature. Sheet edges must be overlapped a minimum of 100 mm. End laps must be a minimum of 200 mm, with upper sheets lapped over lower sheets. Internal and external corners must be reinforced with an extra layer of membrane 300 mm wide. Protection material must be installed before backfilling. Backfilling must commence immediately after the membranes are installed to ensure the membranes are not left exposed to sunlight or UV radiation.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM

#### **Membrane Installation – Floors**

- 15.4 The membranes must be installed in accordance with the Technical Literature. Sheet edges must be overlapped a minimum of 130 mm and end laps must be a minimum of 150 mm. The membranes must be inspected for damage and any damage must be repaired in accordance with the Technical Literature. The membranes must not be exposed to UV radiation for any longer than two months before the structural concrete slab is placed.

#### **System Installation – Pre-Applied**

##### **Site Preparation**

- 16.1 All surfaces are to be sound and solid to eliminate movement during concrete placement. Substrate must be regular and smooth with no gaps or voids greater than 12 mm. Grout must be used around all penetrations such as utility conduits for stability.

##### **Membrane Installation**

- 16.2 Colphene BSW Tanking Membranes must be installed to all areas required to achieve a waterproof finish in accordance with Equus Industries Ltd Technical Data. Temperatures must be greater than -4°C during installation.
- 16.3 The granular surface must face the new concrete. The end laps must be staggered to avoid build up of layers.
- 16.4 The end laps must be accurately positioned to avoid build up of layers. Sheets must overlap the previous sheet by a minimum of 130 mm for side laps and a minimum of 150 mm for end laps. The underside of the sheet must be clean, dry and free from contamination before making the overlaps. All laps are torched together.
- 16.5 Concrete must be placed within 60 days.

##### **Inspections**

- 17.1 The Technical Literature and the installation company's Quality Control sheets must be referred to during the inspection of the membrane installation.

##### **Health and Safety**

- 18.1 Safe use and handling procedures for the membranes is provided in the Technical Literature.

#### **Basis of Appraisal**

The following is a summary of the technical investigations carried out:

##### **Tests**

- 19.1 The following testing of Colphene BSW Tanking Membrane System has been undertaken:
- Watertightness, tensile strength, elongation, resistance to static load, resistance to impact, joint strength (peel and shear), flow resistance at elevated temperature after heat aging, flexibility at low temperature [-15°C], flexibility at low temperature [-5°C] after heat ageing, water vapour flow resistance, peel adhesion to concrete, resistance to hydrostatic head (sample incorporated a joint) and load strain tear strength.

Test methods and results have been reviewed by BRANZ and found to be satisfactory.

##### **Other Investigations**

- 20.1 A durability opinion has been given by BRANZ technical experts.
- 20.2 Practicability of installation has been assessed by BRANZ and found to be satisfactory.
- 20.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM

### Quality

- 21.1 The manufacture of the membranes and primers have not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 21.2 The quality of materials supplied to the market is the responsibility of Equus Industries Ltd.
- 21.3 Quality of installation on-site is the responsibility of the Equus Industries Ltd certified applicator.
- 21.4 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Equus Industries Ltd.
- 21.5 Building owners are responsible for the maintenance of the membrane systems in accordance with the instructions of Equus Industries Ltd.

### Sources of Information

- NZS 3101:2006 Concrete structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4229:2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230:2004 Design of reinforced concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



**BRANZ Appraised**  
Appraisal No. 1037 [2023]

**BRANZ Appraisal**  
Appraisal No. 1037 [2023]  
06 December 2023

COLPHENE BSW TANKING MEMBRANE  
SYSTEM



In the opinion of BRANZ, **Colphene BSW Tanking Membrane System** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Soprema NV**, and is valid until further notice, subject to the Conditions of Appraisal.

### Conditions of Appraisal

1. This Appraisal:
  - a) relates only to the product as described herein;
  - b) must be read, considered and used in full together with the Technical Literature;
  - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
  - d) is copyright of BRANZ.
2. **Soprema NV**:
  - a) continues to have the product reviewed by BRANZ;
  - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
  - c) abides by the BRANZ Appraisals Services Terms and Conditions;
  - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
  - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
  - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
  - c) any guarantee or warranty offered by **Soprema NV**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Soprema NV** or any third party.

For BRANZ



**Claire Falck**

Chief Executive

Date of Issue:

06 December 2023



## EQUUS PRODUCT SYSTEM REFERENCE SHEET



Application of Equus Peel & Stick primer to substrate



Installation of COLPHENE 3000 below-ground waterproofing



Completed wall waterproofing



Connection of COLPHENE 3000 waterproofing membrane to DPM



Installation of Equus drainage, filter and protection layer

**Project Name:** Hukanui School

**Location:** Hamilton

**Project Type:** Public School

**System:** COLPHENE 3000 on walls only

**Certified Applicator:** Cantec

**Main Contractor:** Woodview Construction

**Completion Date:** 2021

**Equus Industries Ltd**

Email: [info@equus.nz](mailto:info@equus.nz)

Website: [www.equus.nz](http://www.equus.nz)

# COLPHENE 3000

## Self-adhesive waterproofing membrane

February 2024

**DESCRIPTION:**

COLPHENE 3000 is a self-adhesive waterproofing membrane composed of SBS modified bitumen and a tri-laminated woven polyethylene facer. The underface is covered with silicone release film.

COLPHENE 3000 is designed for foundation walls and other below grade vertical surfaces, as well as a vapour barrier for warm and green roof systems.

This product can be used on most building surfaces, such as masonry, concrete and wood.

**PACKAGING:**

Specifications	COLPHENE 300
Thickness	1.5 mm
Dimensions	1 x 18.7 m
Weight	1.5 kg/m <sup>2</sup>
Selvage width	75 mm
Surface	Tri-laminated woven polyethylene
Underface	Silicone release film
Qty/Pallet	30

**TECHNICAL DATA:**

Properties	Standards	COLPHENE 3000
Tensile strength, MD/XD	ASTM D5147	11.3/15.4 kN/m
Tensile strength, MD/XD	ASTM D412	11.2/13.1 MPa
Ultimate elongation, MD/XD	ASTM D412	88/55 %
Ultimate elongation, MD/XD	ASTM D5147	40/25 %
Elongation of rubberised asphalt	ASTM D5147	> 1000 %
Flexibility at cold temperature	ASTM D5147	-35°C
Dynamic puncture	ASTM E154	747 N
Static puncture	ASTM D5602	400 N
Tear resistance, MD/XD	ASTM D5601	375/400 N
Lap adhesion	ASTM D1876	2000 N/m
Water absorption	ASTM D5147	0.1 % max
Peel resistance	ASTM D903	3500 N/m
Water vapour permeability	ASTM E96 (Procedure B)	< 2.5 ng/Pa·s·m <sup>2</sup> (< 0.04 perm) (All values are nominal)
Crack cycling at -32°C, 100 cycles	ASTM C836	Unaffected
Resistance to hydrostatic head	ASTM D5385	Minimum 114 m
Adhesion to strength to concrete -not primed -combined with primer	ASTM D1000	560 N/m 1650 N/m

(All values are nominal)



Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: admin@equus.nz | Web: www.equus.nz

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# COLPHENE 3000

## Self-adhesive waterproofing membrane

February 2024

**SCOPE OF USE:**

COLPHENE 3000 is used as waterproofing membrane for foundation walls and other below ground vertical surfaces (up to 3 m deep) with low risk of hydrostatic water pressure against concrete and masonry substrates. The membrane can be overlaid with an Equus approved drainage mat for protection.

COLPHENE 3000 can also be used as a vapour barrier in an Equus Soprema Warm Roof system where specified by the Condensation Risk Analysis (CRA). It is suitable for new builds and refurbishments, residential and commercial construction, in any location in New Zealand.

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

**SURFACE PREPARATION:**

The use of Equus Peel and Stick Primer for self-adhesive membranes is required before the installation of COLPHENE 3000 membrane.

The substrate should be clean, sound, dry and free of loose materials, grease and any contaminants, which may compromise the performance of the product.

**INSTALLATION:**

SELF-ADHESIVE COLPHENE 3000 membrane must be adhered to substrate by peeling off the silicone release film. Side lap joints must be a minimum of 75 mm and end lap joints must be a minimum of 150 mm. Once installed, pressure must be applied over the whole surface using a membrane roller to ensure good contact with the substrate. The upper most edge of the membrane shall be mechanically fastened using termination bars and sealed with a compatible SOPREMA sealant. Contact Equus for suitable sealant.

**Application temperatures:** Winter grade: -10 to 10°C, Summer grade: 10 to 50°C

**UV exposure:** up to 60 days

**RESTRICTION:**

Concrete must be cured a minimum of fourteen (14) days and an adhesion test is recommended before membrane application. For complete information on product installation, please consult your Equus Consultant.

**CONDITION OF USE:**

COLPHENE 3000 shall not be used on surfaces over 3 m below ground or in areas with high hydrostatic water pressure, in this case COLPHENE BSW waterproofing shall be used.

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,b), COLPHENE 3000 has a durability of at least 50 years where used underground and at least 15 years where used above ground, when installed with the correct specification, installation and maintenance. 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 3000 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 3000 complies with this performance requirement. Refer to SDS at [www.equus.nz](http://www.equus.nz)

Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: [admin@equus.nz](mailto:admin@equus.nz) | Web: [www.equus.nz](http://www.equus.nz)

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# COLPHENE 3000

## Self-adhesive waterproofing membrane

February 2024

### SUPPORTING DOCUMENTATION:

Title (type)	Version	URL
BRANZ Appraisal No. 1037	22 April 2022	<a href="https://www.equus.nz/content/reports/branz-appraisal-colphene-1037.pdf">https://www.equus.nz/content/reports/branz-appraisal-colphene-1037.pdf</a>

### 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 removal of the delivery packaging.

### HEALTH AND SAFETY:

The product does not contain any substance which is likely to be detrimental to your health or the environment and complies with generally admitted Health and Safety Requirements. 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
--	----

### 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	<a href="http://www.soprema.com.au">www.soprema.com.au</a>
Manufacturer email	<a href="mailto:info@soprema.com.au">info@soprema.com.au</a>
Manufacturer phone number	+61 3 9221 6230
Manufacturer NZBN	9429050312962

Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: [admin@equus.nz](mailto:admin@equus.nz) | Web: [www.equus.nz](http://www.equus.nz)

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# DRENTEX PROTECT PLUS

## High strength drainage panel

May 2024

### DESCRIPTION:

DRENTEX PROTECT PLUS is a high-strength drainage panel consisting of a high-density polyethylene (HDPE) core with a factory-laminated geotextile for installation over waterproofing membranes in most vertical and horizontal drainage applications.

When used in conjunction with SOPREMA's waterproofing products, the DRENTEX line of products provides first-rate protection against build-up of water pressure and humidity. The non-woven geotextile filters the water to prevent the soil from blocking the drainage, while the polyethylene dimples guide and evacuate the water.

### KEY FEATURES:

- Simple and rapid installation
- Root resistant & rot-proof
- High resistance to compression
- Light load on structures
- Design allows more precise details

### FIELD OF APPLICATION:

- Rooftops
- Plaza decks & terraces
- Planter boxes
- Retaining walls
- Foundations

### PACKAGING:

SPECIFICATIONS	DRENTEX PROTECT PLUS
Density	500 g/m <sup>2</sup>
Dimples height	7.5 mm
Roll dimensions	20 m x 2 m
Roll weight	24 kg
Rolls per pallet	6

### PROPERTIES:

HDPE CORE		
Properties	Test Method	DRENTEX PROTECT PLUS
Compressive strength	-	120 kN/m <sup>2</sup> ± 30
Density	EN ISO 9864	400 g/m <sup>2</sup> ± 5%
Dimples height (at 2kPa)	EN ISO 9863-1	7.5 mm ± 1
Tensile strength (LxT)	EN ISO 10319	10 kN/m <sup>2</sup> : 10 kN/m <sup>2</sup>
Elongation at break (LxT)	EN ISO 10319	50% ± 25 : 55% ± 25

GEOTEXTILE		
Properties	Test Method	DRENTEX PROTECT PLUS
Density	EN ISO 9864	100 g/m <sup>2</sup> ± 10
Tensile strength (LxT)	EN ISO 10319	6 kN/m <sup>-1</sup> : 6 kN/m <sup>-1</sup>
Elongation at break (LxT)	EN ISO 10319	55% ± 30 : 60% ± 30
Static punching (CBR method)	EN ISO 12236	1000 N ± 115
Dynamic perforation (cone drop test)	EN ISO 13433	38 mm ± 6
Water permeability	EN ISO 11058	100 Mm/s ± 40
Opening size	EN ISO 12956	95 microns ± 35

Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: admin@equus.nz | Web: www.equus.nz

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# DRENTEX PROTECT PLUS

## High strength drainage panel

May 2024

### PROPERTIES (Continued):

DRAINAGE CAPACITY		
Properties	Pressure	DRENTEX PROTECT PLUS
Vertical drainage (i = 1)	At 20 kN/m <sup>2</sup>	1.6 l/m s
	At 50 kN/m <sup>2</sup>	1.3 l/m s
	At 100 kN/m <sup>2</sup>	0.8 l/m s
Horizontal drainage (i = 0.1)	At 20 kN/m <sup>2</sup>	0.4 l/m s
	At 50 kN/m <sup>2</sup>	0.25 l/m s
	At 100 kN/m <sup>2</sup>	0.18 l/m s
Horizontal drainage (i = 0.04)	At 20 kN/m <sup>2</sup>	0.25 l/m s
	At 50 kN/m <sup>2</sup>	0.18 l/m s
	At 100 kN/m <sup>2</sup>	0.1 l/m s

### INSTALLATION PROCEDURE:

#### SUBSTRATE

- No work should be started until the substrate is firm, even, clean and free of loose materials or any construction debris on the surface.
- Substrate must have minimum 1% fall to ensure that water drains to drainage outlets.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

#### INSTALLATION

- The substrate must be firm, even, clean and free from loose materials or any construction debris on surface.
- Install DRENTEX PROTECT PLUS with the geotextile facing the backfill or soil retention system.
- DRENTEX PROTECT PLUS must be supported and follow the irregularities of the substrate.
- DRENTEX PROTECT PLUS can cover cracks and holes from 25 to 50 mm in width and depth. Cracks or holes in the substrate exceeding these measurements should be repaired with mortar, shotcrete or plywood (mechanically fastened to the substrate) prior to installing the drainage panel.
- DRENTEX PROTECT PLUS rolls are overlapped by unsticking 10 cm of geotextile mat from both edges, nesting the dimples, i.e. fitting one into the other, and then re-protecting with the unstuck geotextile mat.
- Fasten DRENTEX PROTECT PLUS using mechanical anchors adapted to the substrate and washers with a minimum diameter of 25 mm.
- At the top, DRENTEX PROTECT PLUS must be mechanically fixed by Equus Termination Bar. The profile Equus Termination Bar avoids contamination on the chamber created by the DRENTEX PROTECT PLUS.
- On the bottom of the wall it will be advisable to install a drainage pipe.
- Lastly, compact the surrounding soil to ensure optimum and correct drainage.

For complete information on product installation, please consult your Equus Representative.

#### STORAGE AND HANDLING:

Rolls must be stored in the delivery packaging, in a dry and protected environment.

#### STATEMENT OF RESPONSIBILITY:

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor is responsible for checking the suitability of products for their intended use.

Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: admin@equus.nz | Web: www.equus.nz

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# DRENTEX PROTECT PLUS

## High strength drainage panel

May 2024

### WARNINGS AND BANS:

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

### MANUFACTURERS CONTACT DETAILS:

Manufacture location	Spain
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



Equus Industries Ltd. PO Box 601, Blenheim | Phone: 03 578 0214 | Email: admin@equus.nz | Web: www.equus.nz

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# DANODREN H15 PLUS

## Drainage layer

### Product Information

#### Description:

**DANODREN H15 PLUS** is a nodular sheet composed of high density polyethylene (HDPE) and joined to a non-woven geotextile of calendered polypropylene of 115 g/m<sup>2</sup>. Nodule height is 7.3 ± 0.2 mm. It is specially designed as a drainage layer and for protection of underground walls and slabs in contact with the ground.

#### Packaging:

Rolls: 15 x 2.1m  
Nodule height: 7.3mm  
Roll surface: 42m<sup>2</sup>  
Rolls/pallet: 6

#### Standards & Certification:

CE Marking: 2008 Certificate Number CPF: 0099/CPD/A42/0053  
European standard EN 13252  
The product fulfills the requirements established on the above mentioned norms, for the following applications: "F+S+R+D"  
Filtration, Separation, Resistance and Drainage.



#### Warning:

The information that appears in this document makes reference to the uses and utilities of Danosa's products and systems, and it is based on the knowledge that has been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way.

Danosa is not responsible for unsuitable uses of the products or any other factors, such as meteorological facts, so Danosa is only responsible for the quality related to the provided products. Danosa reserves the right to carry out modifications without previous notice.

The values that appear in this technical sheet are the results of the tests that have been performed in our laboratory as at March 2007.

Technical Data	Value	Unit	Standard
Longitudinal tensile strength	15.0, -2.0	kN/m	UNE EN ISO 10319
Transversal tensile strength	14.0, -2.0	kN/m	UNE EN ISO 10319
Longitudinal elongation at break	100, ±20	%	UNE EN ISO 10319
Transversal elongation at break	70, ±20	%	UNE EN ISO 10319
Puncture resistance (CBR)	2.5, -0.5	kN	UNE EN ISO 12236
Dynamic perforation test	16, +3	mm	UNE EN 918
Water permeability	0.0614, -0.00921	m/s	UNE EN ISO 11058
Drainage capacity (i=0.1) in the plane of the geocomposite (at 100Kpa compression)	0.44	l/m.s	UNE EN ISO 12958
Opening size (geotextile)	160, ±30	µm	UNE EN ISO 12956
Compression resistance	180, ±20%	KN/m <sup>2</sup>	UNE EN ISO 604
Modules of elasticity	1500	N/mm <sup>2</sup>	ISO 178
Water absorption	1	mg/4d	DIN 53495
Temperature range in use	-30 a 80	°C	-
Air volume between nodules, approx.	5.9	l/m <sup>2</sup>	-

**Equus Industries Ltd**  
PO Box 601  
Blenheim  
Phone: 03 578 0214  
Email: [admin@equus.nz](mailto:admin@equus.nz)  
Web: [www.equus.nz](http://www.equus.nz)  
August 2021



# ALSAN MASTIC 2200

## Flexible mastic

March 2024

### DESCRIPTION:

Flexible mastic based on bitumen and synthetic rubber. Used for sealing small tears, cracks, joints and local repairs.



### TECHNICAL DATA:

Properties	ALSAN MASTIC 2200
Composition	Bitumen and synthetic rubber
Temperature resistance	-20/+80°C
Application temperature	+5/+35°C
Consumption	15-20 m/cartridge

### PACKING AND STORAGE:

310 ml cartridge.  
20 cartridges/box.

Minimum 12 months in original unopened packaging, stored in a dry and cool place, protected from sunlight at a temperature between +10 and +25°C.

### INSTALLATION:

ALSAN MASTIC 2200 is applied with a gun on a clean and dust-free surface. It has excellent adhesion to most materials without prior treatment with a primer. It can be applied on a slightly damp surface.

Apply ALSAN MASTIC 2200 so that it is in full contact and has good adhesion to the edges of the joint. The curing time is 4 to 24 hours depending on the conditions and dimensions of the joint.

### CLEANING TOOLS:

White spirit.

### HEALTH AND SAFETY:

For more information, please refer to the relevant safety data sheet.

### QUALITY, ENVIRONMENT AND SAFETY MANAGEMENT:

SOPREMA always recognises as a high level of importance, the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with EN ISO 9001 and EN ISO 14001

### WARNINGS AND BANS:

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

Equus Industries Ltd. 4 Sheffield St, Blenheim 7274 | Phone: 03 578 0214 | Email: info@equus.nz | Web: www.equus.nz

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# ALSAN MASTIC 2200

## Flexible mastic

March 2024

### MANUFACTURERS CONTACT DETAILS:

Manufacture location	Belgium
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

Equus Industries Ltd. 4 Sheffield St, Blenheim 7274 | Phone: 03 578 0214 | Email: [info@equus.nz](mailto:info@equus.nz) | Web: [www.equus.nz](http://www.equus.nz)

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# SOPRASEAL SEALANT

## Solvent-free, low VOC, moisture cure polyether sealant

March 2024

**DESCRIPTION:**

SOPRASEAL SEALANT is a solvent-free and low VOC, moisture cure polyether sealant (STPE) and contains no isocyanates. SOPRASEAL SEALANT has elastomeric properties which provide good flexibility and excellent adhesion to most construction materials as well as SOPRASEAL membranes.

SOPRASEAL SEALANT is used as a waterproofing complement for wall application and can be used to fill and repair horizontal and vertical voids of concrete and masonry substrates that do not exceed 13 mm in width.

**RECOMMENDED SUBSTRATES:**

This product can be used on most substrates, such as aluminium, metal, concrete, masonry and plastics including PVC.

**PACKAGING:**

Specification	SOPRASEAL SEALANT
Physical state	Paste
Colour	Grey
Packaging	300 ml or 600 ml
Coverage	12 linear metres or 24 linear metres*
Viscosity, Brookfield at 22°C	400,000 to 1,200,000 cP

\*With a 5x5 mm bead.  
(All values are nominal)

**TECHNICAL DATA:**

SOPRASEAL SEALANT meets the following standards: ASTM C920, type S, Grade NS, Class 25, uses NT, T, M, G, A and O.

Properties	Standards	SOPRASEAL SEALANT
Density	ASTM D1475	1414 g/L
Elongation at break	ASTM D412	300%
Tensile strength	ASTM D412	2.4 Mpa
Hardness shore A	ASTM C661	40
Low temperature flexibility 6 mm mandrel	ASTM D816	-23°C

(All values are nominal)

**SURFACE PREPARATION:**

The substrate must be clean and dry. Debris and other contaminants such as water, grease and oil may compromise the adhesion. Metal surfaces and PVC pipes must be cleaned with non-greasy solvents, such as acetone or methyl ethyl ketone (MEK).

**APPLICATION:**

Apply SOPRASEAL SEALANT with caulking guns. Initial curing time varies from 30 minutes to an hour with complete cure after 24 hours depending on temperature and relative humidity.

Application Temperatures	Above 0°C
Service temperatures	-40°C to 93°C

For complete information on product installation, please consult your Equus Representative.

**CLEANING:**

Uncured material and tools can be cleaned using an alcohol-based cleaning product.

Equus Industries Ltd. 4 Sheffield St, Blenheim 7274 | Phone: 03 578 0214 | Email: [info@equus.nz](mailto:info@equus.nz) | Web: [www.equus.nz](http://www.equus.nz)

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# SOPRASEAL SEALANT

## Solvent-free, low VOC, moisture cure polyether sealant

**March 2024**

**STORAGE AND HANDLING:**

SOPRASEAL SEALANT shelf life is 12 months. Store original, unopened containers in a cool and dry area. Protect unopened containers from water, heat and direct sunlight. Elevated temperatures will reduce shelf life.

For more information, refer to the instructions on the container label and safety data sheet (SDS).

**WARNINGS AND BANS:**

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

**MANUFACTURERS CONTACT DETAILS:**

Manufacture location	
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	<a href="http://www.soprema.com.au">www.soprema.com.au</a>
Manufacturer email	<a href="mailto:info@soprema.com.au">info@soprema.com.au</a>
Manufacturer phone number	+61 3 9221 6230
Manufacturer NZBN	9429050312962

Equus Industries Ltd. 4 Sheffield St, Blenheim 7274 | Phone: 03 578 0214 | Email: [info@equus.nz](mailto:info@equus.nz) | Web: [www.equus.nz](http://www.equus.nz)

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

# EQUUS PEEL AND STICK PRIMER

## Primer for self-adhesive waterproofing membranes

January 2024

**DESCRIPTION:**

Equus Peel and Stick Primer is a rubber based adhesive solvent solution which is specifically formulated to provide excellent adhesion with the Equus self-adhesive Waterproofing Membranes under many kinds of surface conditions. Equus Peel and Stick Primer is an integral part of Equus self-adhesive Waterproofing Systems and sufficient primer must be used on dry surfaces to condition them to be dust free so that the substrate is suitable for the self-adhesive application of Equus Waterproofing Membranes.

**USES:**

Used to prime all structural concrete, masonry, or wood surfaces on which waterproofing membranes will be used. Designed to be used on applications down to -4°C.

May be used on horizontal surfaces, but remains tacky, and precautions must be used in this application to prevent contamination of the Primer surface prior to installation of the membrane.

Must be used on all concrete block and brick wall conditions.

Do not use on EPS sheet or block. In this case use Equus EPS Primer.

**APPLICATION:**

Equus Peel and Stick Primer may be applied with roller, brush or spray. A roller with a heavy nap should be used to carry sufficient material to the area being primed.

Apply all Equus Peel and Stick Primer to a clean, dry, dust free and frost free surface at a coverage of approximately 6-8 sqm/litre. The primer should be spread sufficiently to avoid areas of excess material. Areas of excess material will lengthen the drying time on the application of the primer.

Equus Peel and Stick Primer is to dry a minimum of one hour - may dry quicker due to drying conditions, such as wind and warmth.

This product is red in colour and will remain tacky when dry. The application of primer should be limited to what can be covered with Waterproofing Membrane in one working day. Any areas not covered with membrane during the day must be reprimed - be sure to cover all open containers when not applying primer, as the primer is volatile.

**SAFETY, STORAGE AND HANDLING:**

Equus Peel and Stick Primer vapours are flammable. User should review the Safety Data Sheet (SDS) for this product and follow safety instructions listed therein.

**TRANSPORT CLASSIFICATION:**

IMDG Class 3.1  
UN No. 1294



# Equus Termination Bar

## Description:

The **Equus Termination Bar** is a pre-manufactured profile that terminates the waterproofing membrane at the wall in a professional and watertight, wind-peel resistant manner with the addition of 50 mm flange for securing drainage board.

The **Equus Termination Bar** is used at concrete or wooden walls and curbs.

## General Use:

Tanking situations where backfill covers membrane and termination bar.

## Characteristics:

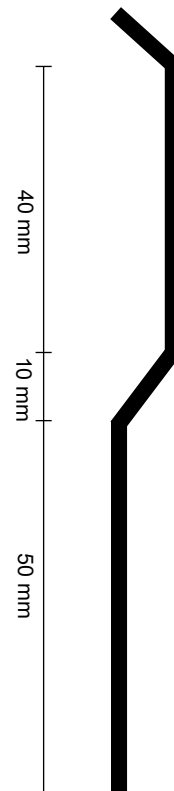
Material:	Extruded aluminium profile (Al Mg Si 0,5 F22 quality)
Tensile strength:	215 N/mm <sup>2</sup>
Yield point:	160 N/mm <sup>2</sup>
Elongation:	10%
Hardness:	70 brinell
Length:	2400 mm
Width:	110 mm
Colour:	Metallic
Thickness:	2 mm
Predrill:	200 mm

## Advantages:

- Increases the durability of the waterproofing system.
- Increases the bonding of the waterproofing to the wall or curb.
- Wind-peel resistant.
- Corrosion resistant.
- Continuous quality.
- Provides an aesthetical, straight finishing.
- Provides a dripping point off the wall.
- Predrilled holes
- Lip for securing drainage layer.

## Installation:

- The waterproofing is installed according to manufacturers details.
- The **Equus Termination Bar** is fastened at the edge of the waterproofing membrane into the wall.
- The space created at the top of the **Equus Termination Bar** is filled with a sealant compatible to the wall's material, bitumen and aluminium. **Equus** recommends **Alsanc Mastic 2000**.



Equus Industries Ltd  
PO Box 601  
Blenheim  
Phone: 03 578 0214  
Email: admin@equus.nz  
Website: www.equus.nz  
July 2021

To see or download full size details click here

- ① Concrete Basement Wall
- ② EQUUS Peel & Stick primer
- ③ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ④ EQUUS Matalcity Thix or EQUUS SOPREMA Alsan Flashing with reinforcement fleece
- ⑤ EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant
- ⑥ EQUUS SOPREMA Sopradrain 10G, drainage and protection layer
- ⑦ Backfill

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: PVC Pipe on Vertical Wall Detail  
 NUMBER: SCBWS-D2c SCALE: 1:5  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Concrete Basement Wall
- ② EQUUS Peel & Stick primer
- ③ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ④ EQUUS SOPREMA Colphene 3000, Waterproofing reinforcement strip
- ⑤ EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant
- ⑥ S/S Clamp Ring
- ⑦ EQUUS SOPREMA Sopradrain 10G, drainage and protection layer
- ⑧ Backfill

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Pipe on Vertical Wall Detail  
 NUMBER: SCBWS-D2c SCALE: 1:5  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Backfill
- ② Concrete wall
- ③ EQUUS Peel & Stick primer
- ④ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ⑤ EQUUS SOPREMA Sopradrain 10G, drainage and protection layer
- ⑥ EQUUS Termination Profile
- ⑦ Neoprene Washer
- ⑧ EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Wall Termination with Termination Bar  
 NUMBER: SCBWS-D4a SCALE: 1:2  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Concrete wall
- ② EQUUS Peel & Stick primer
- ③ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ④ EPS insulation
- ⑤ EQUUS SOPREMA Sopradrain 10G, drainage and protection layer
- ⑥ EQUUS Termination Profile
- ⑦ Neoprene Washer
- ⑧ EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Wall Termination with Termination Bar (Optional)  
 NUMBER: SCBWS-D4b SCALE: 1:2  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Concrete Block Wall
- ② EQUUS Peel & Stick primer
- ③ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ④ Metal Flashing
- ⑤ EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Chase Flashing as termination Detail  
 NUMBER: SCBWS-D4c SCALE: 1:3  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① EQUUS Peel & Stick primer
- ② EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ③ EQUUS SOPREMA C-profile pressure seal
- ④ Metal Flashing
- ⑤ EQUUS Aquafin 2 KM with reinforcement tape

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Membrane termination with Termination Bar and 2KM System  
 NUMBER: SCBWS-D4d SCALE: 1:2  
 DRAWN BY: NKT DATE: 16-Jun-2023 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Soil
- ② Lean Concrete
- ③ EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- ④ EQUUS SOPREMA Colphene BSW V, Waterproofing reinforcement strip
- ⑤ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ⑥ Concrete Drain and Wall
- ⑦ EQUUS Peel & Stick primer
- ⑧ EQUUS SOPREMA Sopradrain 10G and protection layer
- ⑨ Backfill

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Floor Wall Connection Detail  
 NUMBER: SCBWS-D5a SCALE: 1:2  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① Soil
- ② Lean Concrete or Compositd handle
- ③ DPM
- ④ EQUUS SOPREMA Colphene BSW V, Waterproofing reinforcement strip
- ⑤ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ⑥ EQUUS Peel & Stick primer
- ⑦ EQUUS SOPREMA Sopradrain 10G or Danodren H15, drainage and protection layer
- ⑧ Backfill

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Floor Wall Connection to DPM Detail  
 NUMBER: SCBWS-D5b SCALE: 1:2  
 DRAWN BY: NKT DATE: 11-Aug-2022 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

- ① DPM
- ② EQUUS Peel & Stick primer
- ③ EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- ④ EQUUS SOPREMA Colphene 3000, Waterproofing membrane reinforcement strip
- ⑤ EQUUS SOPREMA Sopradrain 10G or Danodren H15, drainage and protection layer

PROJECT: Belowgrade Waterproofing Detail - Colphene 3000  
 TITLE: Floor Wall Connection to DPM Detail (optional)  
 NUMBER: SCBWS-D5c SCALE: NTS  
 DRAWN BY: NKT DATE: 08-Aug-2023 REVISED:  
 EQUUS Waterprotection Details are specially drawn for use by Local Authorities, Building Contractors, Equal Applications, Architects and design professionals. All details are drawn to assist in the development of project specific details. Details may be modified where necessary to accommodate job specific requirements but must be approved by Equus Industries Ltd. All components must be supplied by Equus Industries Ltd. Equus reserves the right to alter or upgrade details at any time without prior notice.

To see or download full size details click here

- 1 EQUUS Peel & Stick primer
- 2 EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- 3 EQUUS SOPREMA Sopradrain 10G, drainage and protection layer
- 4 EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- 5 EQUUS Mataryn Thix or EQUUS SOPREMA Alsan Flashing with reinforcement fleece
- 6 EQUUS Termination Profile

Note: All dimensions are in millimeters

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	Wall and Footing Detail
NUMBER:	SCBWS-D0a
SCALE:	1:10
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 EQUUS Peel & Stick Primer
- 2 EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- 3 XPS insulation
- 4 EQUUS SOPREMA Sopradrain 10G and protection layer
- 5 EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- 6 EQUUS Waterstop
- 7 EQUUS Mataryn Thix or EQUUS SOPREMA Alsan Flashing with reinforcement fleece
- 8 EQUUS Termination Profile

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	Wall and Footing Detail (Optional)
NUMBER:	SCBWS-D0b
SCALE:	1:10
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Site concrete
- 2 EQUUS SOPREMA Colphene BSW H, 1st layer (heat-welded)
- 3 EQUUS SOPREMA SOPRAJOINT (laps heat-welded)
- 4 EQUUS SOPREMA Colphene BSW H, (reinforcement heat-welded)
- 5 Minimum 150 mm reinforcement strip centered on the edge of the flange
- 6 EQUUS SOPREMA Colphene BSW H, 2nd layer (heat-welded)
- 7 Rigid support, 300 mm cover board
- 8 EQUUS SOPREMA Colphene 3000, 500 mm
- 9 EQUUS SOPREMA Colphene BSW V
- 10 Waterstop
- 11 Rod foam
- 12 EQUUS Alsan Mastic 2200 sealant

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	Seismic joint detail
NUMBER:	SCBWS-D9a
SCALE:	1:5
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	LIR PI Detail - LIR PI Waterproofing Detail - Overview
NUMBER:	SCBWS-D10a
SCALE:	1:16
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Site-concrete
- 2 EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- 3 EQUUS SOPREMA Colphene BSW V, Waterproofing reinforcement strip
- 4 Concrete LIR PI
- 5 EQUUS Peel & Stick primer
- 6 EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- 7 EQUUS SOPREMA Sopradrain 10G and protection layer
- 8 Backfill

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	LIR PI Detail - Floor Wall connection
NUMBER:	SCBWS-D10a(1)
SCALE:	1:3
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Chamfered corner
- 2 EQUUS Peel & Stick primer
- 3 EQUUS SOPREMA Colphene BSW V, Waterproofing reinforcement strip
- 4 EQUUS SOPREMA Colphene 3000, Waterproofing membrane
- 5 EQUUS SOPREMA Sopradrain 10G and protection layer
- 6 Backfill
- 7 EQUUS Termination profile
- 8 EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	LIR PI Detail - Membrane Termination
NUMBER:	SCBWS-D10a(2)
SCALE:	1:5
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Concrete Floor
- 2 Site-concrete
- 3 EQUUS SOPREMA Self-adhesive membrane Colphene 3000, positioned upside down
- 4 EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- 5 EQUUS SOPREMA Self-adhesive membrane Colphene 3000
- 6 DPM

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	LIR PI Detail - Membrane and DPM
NUMBER:	SCBWS-D10a(3)
SCALE:	1:5
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Concrete LIR PI Wall
- 2 EQUUS SOPREMA Colphene BSW H, Waterproofing membrane
- 3 EQUUS SOPREMA Sopradrain 10G and protection layer
- 4 Concrete Floor
- 5 Site-concrete

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	LIR PI Detail - Membrane connection
NUMBER:	SCBWS-D10a(4)
SCALE:	1:2
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Concrete Structure
- 2 EQUUS Peel & Stick primer
- 3 EQUUS SOPREMA Colphene 3000 (self-adhered)
- 4 EQUUS SOPREMA DeboTack 2.5 TF C175 basesheet (self-adhered)
- 5 Flat pressure seal
- 6 EQUUS SOPREMA DuO High Tech 4 Slates/F C180 Firecure cap sheet
- 7 Compacted Hardfill

PROJECT:	Belowgrade Waterproofing Detail - Colphene 3000
TITLE:	Podium waterproofing transition detail
NUMBER:	SCBWS-D11a
SCALE:	1:2
DRAWN BY:	NKT
DATE:	11-Aug-2022
REVISED:	

**EQUUS** AUTHORIZED DISTRIBUTOR **SOPREMA**



# WHO ARE WE?

Equus Industries provides technical waterproofing solutions for Architects, Engineers, Property Managers, and Contractors in the building industry. One system does not fit all.

Equus can provide complete solutions, systems, specifications, technical support and warranties.

Equus is the Authorised Distributor for SOPREMA in New Zealand. SOPREMA was founded in 1908 in France and has over 100 factories worldwide producing waterproofing materials and thermal insulation.



## Equus Southern

Unit 6/100 Fitzgerald Ave  
Christchurch

Ph: 03 353 2434

southern@equus.nz

## Equus Central

45 Hutt Rd, Petone  
Wellington

Ph: 04 576 0333

central@equus.nz

## Equus Northern

211 Archers Rd, Wairau Valley,  
Glenfield, Auckland

Ph: 09 415 4314

northern@equus.nz

## Find us on:

**masterspec**

**archify**

**ARCHIPRO**

[www.equus.nz](http://www.equus.nz)