



EQUUS SOPREMA ANTIROCK MEMBRANE

Standard Building Consent Package



CELEBRATING

40 YEARS

1982-2022

MARCH 2024

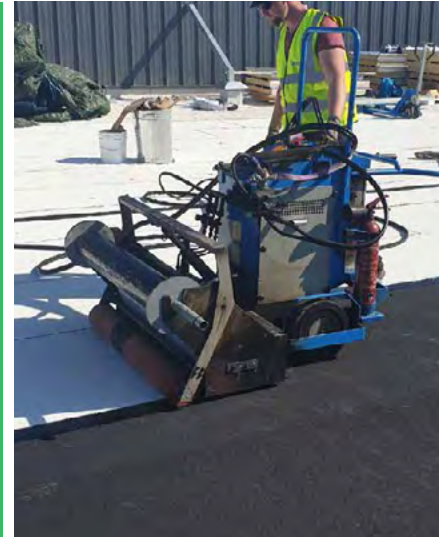


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Waterproofing carparks, bridges and civil engineering structures is an essential step in their construction, as it protects the concrete and its steel reinforcement from moisture and corrosion and prevents any premature degradation. This is particularly essential for rooftop carparks and carparking buildings, to protect the building and its residents within. Where the waterproofing is covered with asphalt, the membrane must be of a high-quality in order to withstand the high temperatures and installation of the asphalt layer during construction.

Introducing ANTIROCK – which has been used and recognised worldwide for more than 30 years – a heat-welded membrane designed specifically to be installed on parking decks, road bridges, rail bridges or other types of concrete structures directly underneath asphalt.

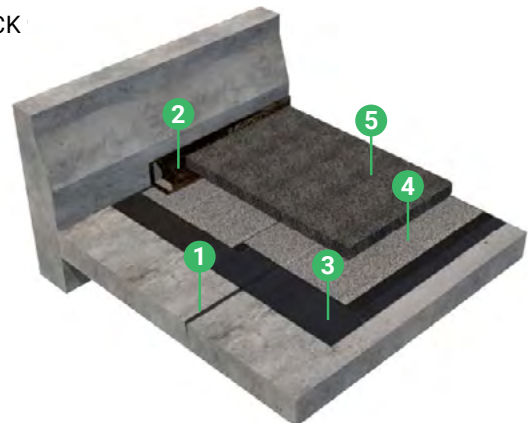


EQUUS SOPREMA ANTIROCK

The ANTIROCK heat-welded membrane system is a top-of-the-line solution for waterproofing carpark decks, bridges, and civil engineering structures. This membrane is composed of SBS-modified bitumen and a tough non-woven polyester reinforcement, which makes it a highly durable waterproofing option and resistant to wear and tear. ANTIROCK is the superior choice for reliable protection, designed specifically to withstand the challenges posed by a hot applied asphalt cover.

ANTIROCK can be installed traditionally or with the semi-automatic MINI-MACADEN / MINI-MAMMOUTH for faster installation.

Together with other high-quality EQUUS SOPREMA products the ANTIROCK system including primer, sealant and liquid waterproofing membranes.



EQUUS SOPREMA ANTIROCK SYSTEM

- 1 Crack sealer: ALSAN MASTIC 2200
- 2 Details and flashings: Liquid detailing membrane
- 3 Primer: SOPRADERE QUICK
- 4 Waterproofing membrane: ANTIROCK
- 5 Surface layer: Asphalt pavement



KEY BENEFITS:

- Used directly underneath asphalt
- Total adhesion to the substrate by heat welding
- High mechanical strength to withstand the movement of the supporting structure
- Resistance to chemical and biological agents (hydrocarbons, salts, etc.)
- Resistance to thermal shock and puncture
- High elasticity
- Excellent tear and puncture resistance
- Ready for immediate paving
- Fast and secure installation by automated machine available in NZ



EQUUS SOPREMA Technical Support:

- Project specific specifications and details
- On-site quality assurance
- Nationwide network of Certified Applicators
- Manufacturer, distributor and applicator warranty

TIME AND LABOUR SAVINGS WITH THE MINI-MACADEN/ MINI-MAMMOUTH

The MINI-MACADEN / MINI-MAMMOUTH is a specialised piece of equipment which allows the automated installation of SOPREMA's heat-welded membranes.

Self-propelled and self-guided, it unwinds, welds and smooths bitumen waterproofing membranes.



MINI BUT MIGHTY

- **QUICK:** With the MINI-MACADEN / MINI-MAMMOUTH, it is possible to install up to 1,000 m² of membrane per day, with four operators.
- **EFFICIENT:** It offers constant installation quality over the entire structure.
- **ECONOMICAL:** It reduces labour and materials.
- **VERSATILE:** It can be used on bridges, overpasses, parking decks, and roofs at any time, regardless of temperature or wind conditions.
- **SAFE:** It reduces the use of flame and the need for manual operations.
- **ENVIRONMENTAL:** It is equipped with electric and gas motors.



MINI-MAMMOUTH

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.



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ARCHIPRO

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CELEBRATING
40
YEARS
1982-2022

Specification

WATERTIGHT TECHNOLOGY

COATINGS & SILICATE SYSTEMS

FLOORING TECHNOLOGY

Standard Specification for the application of EQUUS SOPREMA ANTIROCK over concrete carparking decks and bridges with subsequent asphalt cover

Project:
Specification: P36701
Date: October 2023
Pages 1 of 4

1.0 PREAMBLE:

This specification is for the application of an **EQUUS SOPREMA ANTIROCK** single-layer waterproofing membrane system to concrete carparking and bridge surfaces in a situation where it will act as a tanking membrane below new asphalt. It is understood that the minimum thickness of the asphalt cover is 40 mm after compaction for light vehicles, or 60 mm after compaction for heavy vehicles.

This specification incorporates a reinforcing system for ramps, if they are to be part of the scope of works, to reduce slump of the bitumen membrane in these areas.

Installation of the system shall only be carried out by an Equus Certified Applicator.

2.0 SURFACE PREPARATION

All surfaces shall be dry and free from ice, frost, oil, grease, curing compounds, shutter release oils, loose particles, moss, algae growth, laitance, friable matter, bitumen, asphalt, dirt and all other contaminants.

To obtain the good surface, concrete should be grit blasted on horizontal zones, or prepared on the others zones in order to get rid of all non-cohesive material and to make sure of its regularity.

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 EQUUS SOPREMA membrane sub-contractor.

2.2 New Concrete:

- .1 Shall be correctly formed to falls where required and cured at least 21 days prior to coating application.
- .2 No curing membranes shall be used. If a curing or parting membrane is used, the main contractor shall ensure all traces of curing/parting membranes are removed prior to the Equus Certified Applicator commencing work.
- .3 Concrete slabs shall be finished to NZS 3114:1980 U3 finish, and concrete ex form work shall be finished to NZS 3114:1980F5X with no discontinuities allowed.
- .4 All concrete surfaces shall have ridges, nibs and protrusions ground flush with adjacent surfaces.
- .5 Depressions shall be flushed with the Schomburg **ASOCRET BIS** range and allowed to cure 48 hours before overcoating.
- .6 All formed or sawn expansion joints shall be left uncaulked with neat edges, ready for joint sealing after primer application.

2.3 Existing Concrete

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



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P31651

Specification

- .1 Shall be thoroughly cleaned by scrubbing with a hot solution of Basol 88 or similar strong alkaline cleaner.
- .2 Shall then be high pressure water washed to remove all contaminants from the surface.
- .3 Shall have the above steps repeated as necessary to ensure that all oil and contaminants are removed from the surface.
- .4 Shall have any nibs, ridges or protrusions ground flush with the surrounding surface.
- .5 Shall have any existing cracks construction joints or expansion joints saw cut to a correct profile and blown/vacuumed clean of all detritus.

2.4 Falls:

To be formed in the asphalt cover or engineered into the deck structure profile.

2.5 Outlet Types:

These are available in varying shapes and sizes in bronze, brass, or aluminium. Refer to Equus for further assistance.

3.0 MEMBRANE APPLICATION:

Installation of the waterproofing system shall only be carried out at a minimum air and substrate temperature of 4°C and rising.

3.1 Primer:

To the dried and prepared surface apply one (1) full coat of **SOPRADERE QUICK** applied by brush/roller at a spreading rate of 5-6 sqm/litre. Allow to dry for a minimum of one (1) hour depending upon prevailing conditions.

3.2 Manual membrane application:

In the main membrane application, the **ANTIROCK** is unrolled, all packaging removed, aligned correctly, cut to length as required and re-rolled for torching. Torching shall be from the middle to both ends, ensuring even heat is applied overall to the roll and to the substrate.

The **ANTIROCK** shall be applied to all nominated roof/deck areas, working in accordance with Manufacturer's instructions, and observing the following points:

- .1 The application shall be periodically tested for bonding during laying on all surfaces, by pullback to check 'stringing', and by trying to lift at laps.
- .2 The bitumen must overflow 5mm to 10 mm on each side of the membrane sheet;
- .3 Radial joints shall be offset, with all side laps 75mm, and all end laps 150mm.
- .4 Laying shall generally commence at low sides of roof areas, and proceed to high sides, so that laps are sealed running with water flow.
- .5 All laps shall be trowelled tight on the downhill (open) edge of the lap, using a margin trowel and/or roller and torching.

3.3 Semi-Automated membrane application with the Mini-MACADEN or Mini-MAMMOUTH:

The parameters of the Mini-MACADEN are controlled by the Certified Applicator. Temperature does not need to be changed, only the speed of the machine and its alignment may be changed during operations: faster if the bitumen is too liquid, or slower if the bitumen does not overflow each side of the membrane.

- .1 The roller is mounted on the chassis machine and the membrane is engaged, the machine is pre-aligned.
- .2 Turning on the Mini-MACADEN/Mini-MAMMOUTH: advancement and automatic guidance.
- .3 Visual monitoring of welding for possible adjustment speed.
- .4 Stop the burner at the end of roll.
- .5 Manual welding the ends of the roll.

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Specification

WATERTIGHT TECHNOLOGY
COATINGS & SILICATE SYSTEMS
FLOORING TECHNOLOGY

3.4 Detailing:

Detailing shall be carried out using **ALSAN FLASHING** or **Matacryl Thix** liquid applied membranes with sand blinding. This shall include all outlets, pipe penetrations, gutter stop ends, parapet upstands, machinery plinths and anything above or below the roof/deck surface. This is 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 recommended procedures. Where special detailing accessories and chase sealants are required, confirm with Equus.

3.5 Ramp Anti Slump Bars: (if applicable)

Fix 20mm x 75mm x4 mm Galvanized steel angles using Rawl plugs @ 600mm centres across the ramp and at 5 metre intervals down. Angles shall be fixed through the membrane and sealed with **ALSAN MASTIC 2200** ensuring all boltholes and up-hill edge of the bar is completely sealed. Reapply a strip of **ANTIROCK** over the surface flange of the galvanised steel angle.

3.6 Completion:

Upon completion of the system, it shall be inspected.

Note: Any damage caused to the completed installation by other trades working over the membrane after the initial inspection shall be the responsibility of the Main Contractor, who shall arrange appropriate protection as required.

3.7 Asphalt installation:

- .1 The overlay of the asphalt is carried out by another sub-contractor, but the **ANTIROCK** sub-contractor shall allow for attendance during laying of the asphalt topping. Ensuring that the integrity of the membrane is not compromised during this operation.
- .2 The overlay has to be installed within one week after installation of the membrane **ANTIROCK**.
- .3 The maximum temperature of the asphalt installation is 200°C.
- .4 The thickness of the asphalt layer depends on the load and traffic that the asphalt concrete will have to withstand. Thus, the minimum thickness is 40 mm after compaction for light vehicles, (including areas occasionally accessible to fire vehicles and moving trucks), or 60 mm after compaction for heavy vehicles. Dimensions on a case-by-case basis when the coating is used for the traffic of special vehicles such as forklifts. Variation can be accepted when using high-performance asphalt. However, a minimum thickness of 40 mm must be applied.
- .5 Asphalt shall be applied in two layers where possible.
- .6 The evacuation of the water contained in the asphalt must be done with adequate drain systems and connected to main evacuation.

4.0 MAINTENANCE:

4.1 Maintenance:

As the finished membrane system is "buried" normal maintenance is not possible and should equally not be necessary. However, if major alteration is required, the Applicator who carried out the installation should be notified, so that he may attend on site to ensure that the integrity of the membrane system is maintained during and on completion of such works.

4.2 Warranty:

The **EQUUS SOPREMA ANTIROCK** membrane system described in this specification may be warranted as waterproof for a period of up to twenty (20) years, provided that:

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.
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Specification

- (a) All work is carried out by an Equus Certified Applicator.
- (b) All work is carried out in accordance with the manufacturer's technical literature and the Application Manual current at the time of design, use, installation and maintenance.
- (c) The Warranty is issued in conjunction with an appropriate Maintenance Statement.

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 purpose of the materials supplied for the contract.

It should be noted that as the surface may be a wearing surface, certain provisions regarding mechanical damage and maintenance recoating may be incorporated within the warranty, depending entirely upon the declared intended use to which the surface is to be put.

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EQUUS SOPREMA ANTIROCK

Single-layer torch-on bituminous waterproofing membrane for under asphalt

Specification No: P36701

Date Prepared: May 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.
- c) A copy of this checklist should form part of the Contract Documentation filed with the Property Manager on job completion.

2. Areas Treated

Areas to which the membrane will be 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 correctly formed to falls as per plans and allowed to cure for at least 21 days prior to membrane application.				
2.*	Concrete to have all ridges and protrusions stoned flush.				
3.*	Concrete shall be finished to NZS3114:1987 U3.				
4.*	Surface defects to be filled with ASO-CRET BIS product range. Any major concrete dishing or ponding is to be discussed with Equus to work out a remedy.				
5.	Concrete surface satisfactory for installation of membrane by Equus Certified Applicator.				
6.	Apply one full coat of SOPRADERE QUICK primer by brush/roller at a spreading rate of 5-6 sqm/litre. Allow to dry for minimum 1 hour.				
7.	Unroll ANTIROCK membrane, align and cut to length. Re-roll and torch apply to primed concrete ensuring even heat is applied and joints are off-set. Maintain a minimum 75mm side and 150mm end lap.				
8.	Detailing shall occur using ALSAN FLASHING or MATACRYL THIX , sand blinded, on all outlets, pipe penetrations, gutter stops ends, parapet upstands, machinery plinths and anything above or below roof/deck surface.				

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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
9.	Ramp anti slump bars: (if applicable) Fix 20mm x 75mm x4 mm Galvanized steel angles using Rawl plugs @ 600mm centres across the ramp and at 5 metre intervals down. Angles shall be fixed through the membrane and sealed with ALSAN MASTIC 2200 ensuring all boltholes and up-hill edge of the bar is completely sealed. Reapply a strip of ANTIROCK over the surface flange of the galvanised steel angle.				
10.*	System to be inspected upon completion.				
11.	Asphalt: Must be installed within one week of membrane installation and is carried out by another sub-contractor. Equus Certified Applicator shall attend during laying of the asphalt to ensure the integrity of the membrane is not compromised.				
12.	Asphalt: the minimum thickness is 40 mm after compaction for light vehicles, or 60 mm after compaction for heavy vehicles.				

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BRANZ Appraised
Appraisal No. 685 [2021]

**SOPREMA DUO
ROOF AND DECK
MEMBRANE SYSTEMS**

Appraisal No. 685 [2021]

This Appraisal replaces BRANZ
Appraisal No. 685 [2016]

Amended 13 November 2023



BRANZ Appraisals

Technical Assessments of
products for building and
construction.



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Product

1.1 Soprema DuO Roof and Deck Membrane Systems are modified bitumen waterproofing membranes for roofs and decks.

Scope

- 2.1 Soprema DuO Roof and Deck Membrane Systems have been appraised as roof and deck waterproofing membranes on buildings within the following scope:
- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
 - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regard to building height and floor plan area when subject to specific structural design; and,
 - with substrates of plywood or suspended concrete slab; and,
 - with minimum falls for roofs of 1:30, plywood decks of 1:40 and suspended concrete slabs of 1:60; and,
 - with minimum falls for decks of 1:40; and,
 - with deck size limited to 40 m²; and,
 - situated in NZS 3604 Wind Zones up to, and including, Extra High.
- 2.2 Soprema DuO Roof and Deck Membrane Systems have also been appraised as roof and deck waterproofing membrane on buildings within the following scope:
- subject to specific structural and weathertightness design; and,
 - with substrates of plywood or suspended concrete slab; and,
 - situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 4.5 kPa; and,
 - with the weathertightness design of junctions for each specific structure being the responsibility of the building designer.
- 2.3 Roofs and decks waterproofed with Soprema DuO Roof and Deck Membrane Systems must be designed and constructed in accordance with the following limitations:
- nominally flat roofs and decks and pitched roofs constructed to drain water to gutters and drainage outlets complying with the NZBC; and,
 - with no steps within the deck level, no integral roof gardens and no downpipes discharging directly to decks; and,
 - with the deck membrane continually protected from physical damage by a pedestal protection system.
- 2.4 The design and construction of the substrate and movement and control joints is specific to each building, and therefore is the responsibility of the building designer and building contractor and is outside the scope of this Appraisal.
- 2.5 The membranes must be installed by Equus Industries Ltd approved applicators.



BRANZ Appraisal
Appraisal No. 685 [2021]
07 July 2021

SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Soprema DuO Roof and Deck Membrane Systems, 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 [b] 15 years. Soprema DuO Roof and Deck Membrane Systems meet this requirement. See Paragraph 10.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1 and E2.3.2. Soprema DuO Roof and Deck Membrane Systems meets these requirements. See Paragraphs 13.1-13.9.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Soprema DuO Roof and Deck Membrane Systems meet this requirement.

Technical Specification

4.1 Materials supplied by Equus Industries Ltd are as follows:

- **DeboPlast 2.5 mm T/F C175** - a 2.5 mm thick, APP modified bitumen-based sheet waterproofing membrane with a mixture of talcum and sand on the upper surface and an ultra-thin polyethylene foil on the under layer used as a base layer in multi-layer systems. It has a composite reinforcement of 175 g/m² polyester and glass and is supplied in 1 m x 10 m rolls.
- **DeboFlex 2.5 mm T/F C175** - a 2.5 mm thick, SBS modified bitumen-based sheet waterproofing membrane with a mixture of talcum and sand on the upper surface and an ultra-thin polyethylene foil on the under layer used as a base layer in multi-layer systems. It has a composite reinforcement of 175 g/m² polyester and glass and is supplied in 1 m x 10 m rolls.
- **DeboTack 2.5 mm T/F C175** - a 2.5 mm thick, SBS modified bitumen-based sheet waterproofing membrane with a mixture of talcum and sand on the upper surface and a self-adhesive under-layer used as a base layer in multi-layer systems. It has a composite reinforcement of 175 g/m² polyester and glass and is supplied in 1 m x 10 m rolls.
- **Debotack 2.5 mm T/F C175 Aero** - a 2.5 mm thick, SBS modified bitumen-based sheet waterproofing membrane with a mixture of talcum and sand on the upper surface and the under-layer of heat resistant polypropylene fleece with self-adhesive bitumen strips 55 mm wide to create partial bonding to the substrate. It is used as a base layer in multi-layer systems. It has a composite reinforcement of 175 g/m² and is supplied in 1 m x 10 m rolls.
- **DuO HT 4 Slates/F C180 Firecare** - a nominal 4 mm thick TPO/SBS composite bitumen torch-applied sheet waterproofing membrane with a coloured slate granule upper surface finish and a polyethylene under-finish used as a cap sheet in a multi-layer system. It has a composite reinforcement of polyester and glass of 180 g/m². It is supplied in 1 m x 8 m rolls.
- **DuO HT 4 Slates/F C180 Aero Firecare** - a nominal 4 mm thick TPO/SBS composite bitumen torch-applied sheet waterproofing membrane with a coloured slate granule upper surface finish and an under layer of pure SBS strips with polyethylene foil finish to allow vapour distribution under the waterproofing, used as a cap sheet in a single-layer system. It has a composite reinforcement of polyester and glass of 180 g/m². It is supplied in 1 m x 8 m rolls.
- **DuO HT 4 Slates/F C180 Firecare Mecano** - a nominal 4 mm thick TPO/SBS composite bitumen sheet waterproofing membrane with a coloured slate granule upper surface finish and an under-finish of polyethylene foil which is designed to be mechanically fastened to the roof, used as a single layer system on concrete, or as a cap sheet in a multi-layer system. It has a composite reinforcement of polyester and glass of 180 g/m². It is supplied in 1 m x 8 m rolls.
- **DuO HT 4 Slates/PP C180 Firecare No Flame** - a nominal 4 mm thick TPO/SBS composite bitumen sheet waterproofing membrane with a coloured slate granule upper surface finish and an under-finish of polypropylene fleece which can be partially or fully bonded without heat, used as a cap sheet in a multi-layer system. It has a composite reinforcement of polyester and glass of 180 g/m². It is supplied in 1 m x 8 m rolls.



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SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

- **Antirock** - a nominal 5 mm TPO/SBS composite bitumen, torch-applied sheet waterproofing membrane with a grey granule upper surface finish and an under-finish of polyethylene foil. It has a composite reinforcement of polyester and glass of 250 g/m² to provide a higher reinforcement level for greater heat resistance, elongation and strength used as a cap sheet under hot applied asphalt mixes. It is supplied in 1 m x 8 m rolls.
- **DuO HT 4 Slates/ F C180 Firecare Landscape** - a nominal 4 mm TPO/SBS composite bitumen, torch-applied sheet waterproofing membrane with a coloured slate upper surface finish and an under-finish of polyethylene foil. It has a composite reinforcement of polyester and glass of 180 g/m². It is root-resistant according to EN13948 and applicable for green roofs. It is used as a cap sheet in multi-layer systems. It is supplied in 1 m x 8 m rolls.
- **DuO HT 4 Slates/ F C180 Firecare** - a nominal 4 mm TPO/SBS composite bitumen, torch-applied sheet waterproofing membrane with a coloured slate granule upper surface finish and an under-finish of polyethylene foil. It has a composite reinforcement of polyester and glass of 180 g/m². It is designed for fire resistant applications and used a cap sheet in multi-layer systems. It is supplied in 1 m x 8 m rolls.
- **DuO Primer, Sopradere Quick** - a solvent-based, bituminous varnish used to prime dry and porous surfaces. It is supplied in 25 L containers.
- **DuO Primer, Aquadere** - a water-based, bituminous primer used to prime dry and porous surfaces. It is supplied in 25 L containers.
- **DuO Kit Sealant, Aslan Mastic 2200** - a bituminous adhesive/sealant used for cold bonding and sealing when necessary. It is a black paste, supplied in 310 ml cartridges.
- **DuO Fix PU Cold Adhesive** - a PU cold adhesive for adhering DuO No Flame waterproofing membranes.
- **Equus Fix Plus Pedestals** - adjustable pedestal protection system.
- **DuO Cold Glue** - a bituminous cold adhesive for adhering DuO No Flame waterproofing membranes. It is supplied in 25 kg cans.
- **Permabase Deck Roof Cover Board** - is a lightweight cement roof cover board for modified bitumen waterproofing membranes. It is supplied as a 2,400 mm x 1,200 mm x 9 mm thick board.

Handling and Storage

- 5.1 Handling and storage of all materials, whether on-site or off-site is under the control of the Equus Industries Ltd approved applicators. Dry storage must be provided for all products and the rolls of membrane must be stored in an upright position.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
- Equus Soprema DuO Roof and Deck Membrane, BRANZ Appraisal No. 685 Technical Literature, dated January 2023.
- 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 Soprema DuO Roof and Deck Membrane Systems are for use on roofs, decks, gutters and parapets where an impervious waterproof membrane is required to prevent damage to building elements and adjoining areas. The products can be used on new or existing buildings. Equus Industries Ltd should be consulted as to the suitability of any existing substrates prior to using Soprema DuO Roof and Deck Membrane Systems.



BRANZ Appraised
Appraisal No. 685 [2021]

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07 July 2021

SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

- 7.2 Soprema DuO Roof and Deck Membrane Systems are normally applied as double layer systems, with a base layer and cap layer. There are a number of different options available, Equus Industries Ltd should be consulted for the best option depending on performance requirements.
- 7.3 The effective control of internal moisture must be considered at the design stage because of the impermeability of the membranes. Refer to the BRANZ Good Practice Guide: Membrane Roofing.
- 7.4 Where regular foot traffic on the roof is envisaged i.e. maintenance of lift equipment, a walkway should be installed to ensure the membrane is protected. The Soprema DuO Roof and Deck Membrane Systems are designed for limited, irregular pedestrian access only.
- 7.5 Soprema DuO Roof and Deck Membrane Systems can be used exposed or covered with a ballast layer. Equus Industries Ltd should be consulted for ballast options.
- 7.6 Soprema DuO Roof and Deck Membrane Systems, when used on decks, require a pedestal protection system. Equus Industries Ltd should be contacted for the best system to meet design requirements.
- 7.7 NZBC Acceptable Solution E2/AS1 limits the size of decks to 40 m². Soprema DuO Roof and Deck Membrane Systems are suitable for use on decks larger than 40 m². These decks are subject of specific design, in accordance with Paragraph 2.2.

Structure

- 8.1 Timber framing systems must comply with NZS 3604, or where specific engineering design is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604, or comply with the serviceability criteria of AS/NZS 1170. In all cases framing must be provided so that the maximum span of the substrate as specified by the substrate manufacturer is met and that all sheet edges are fully supported.
- 8.2 Soprema DuO Roof and Deck Membrane Systems fully bonded double layer systems are suitable for use in areas subject to maximum wind pressures of 4.5 kPa ULS.

Substrates

Plywood

- 9.1 Plywood must be treated to H3 [CCA treated]. **LOSP treated plywood must not be used.** Plywood must comply with NZBC Acceptable Solution E2/AS1 Paragraph 8.5.3 and 8.5.5. Where specific design is used [i.e. outside the scope of E2/AS1], the plywood thickness and fixing size may increase and centres may decrease to meet specific wind loadings. Timber framing must comply with NZS 3604, or where specific engineering design is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604, or comply with the serviceability criteria of AS/NZS 1170. In all cases, framing must be provided so that the maximum span of the substrate as specified by the substrate manufacturer is met and all sheet edges are fully supported.

Concrete

- 9.2 Concrete substrates must be to a specific engineering design meeting the requirements of the NZBC, such as concrete construction to NZS 3101.

Existing Construction

- 9.3 A thorough inspection of the substrate must be made to ensure it is in fit condition and does not contain any materials that will adversely affect the performance of the membrane.
- 9.4 Repairs must be undertaken, where applicable, to ensure the substrate is sound, the joints are sealed, and the flashings are sound. Plywood substrates must be checked for screw fixings, and if necessary, refixed as for new plywood.



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07 July 2021

SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

Durability

Serviceable Life

- 10.1 Soprema DuO Roof and Deck Membrane Systems will have a durability of at least 15 years and an expected serviceable life of over 25 years, provided they are designed, used, installed and maintained in accordance with this Appraisal and the Technical Literature.

Chemical Resistance

- 10.2 Industrial air pollutants and windborne salt deposits should not significantly affect the durability of the membranes. However, the long term properties of the material may be affected by contact with petroleum-based products such as oils, greases and solvents.

Maintenance

- 11.1 Soprema DuO Roof and Deck Membrane Systems must be regularly [at least annually] checked for damage, rubbish or debris. Damage, such as small punctures and tears, must be repaired as recommended by Equus Industries Ltd.
- 11.2 Special care must be taken when inspecting the membrane roof systems to ensure the continuing prevention of moisture ingress, and repairs must be undertaken where required.
- 11.3 Drainage outlets must be maintained to operate effectively.

Prevention of Fire Occurring

- 12.1 Separation or protection must be provided to Soprema DuO Roof and Deck Membrane Systems from heat sources such as fireplaces, heating appliances, flues and chimneys. Part 7 of NZBC Verification Method C/VM1 and Acceptable Solution C/AS1, and Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

External Moisture

- 13.1 Roofs and decks must be designed and constructed to shed precipitated moisture. They must also take account of snowfalls in snow prone areas. A means of meeting code compliance with NZBC Clause E2.3.1 is given by the Technical Literature which aligns with details in NZBC Acceptable Solution E2/AS1.
- 13.2 When installed in accordance with this Appraisal and the Technical Literature, Soprema DuO Roof and Deck Membrane Systems will prevent the penetration of water and will therefore meet code compliance with NZBC Clause E2.3.2. The membranes are impervious to water and will give a weathertight roof or deck.
- 13.3 Roof and deck falls must be built into the substrate and not created with mortar screeds applied over the membrane.
- 13.4 The minimum fall to plywood roofs or decks is 1 in 30, concrete is 1 in 60, and gutters is 1 in 100. All falls must slope to an outlet. Inadequate falls will allow moisture to collect and increase the risk of deterioration of the membrane. *[Note: Where possible, a gutter fall of 1:60 is preferred.]*
- 13.5 Allowance for deflection and settlement of the substrate must be made in the design of the roof or deck to ensure falls are maintained and no ponding of water can occur.
- 13.6 Soprema DuO Roof and Deck Membrane Systems are impermeable; therefore a means of dissipating construction moisture must be provided in the building design and construction to meet code compliance with NZBC Clause E2.3.6.
- 13.7 Drainage flanges must be used for any outlet and must be fitted with a grate or cage to reduce potential sources of blockages. An overflow must be provided where the roof or deck does not drain to an external gutter or spouting.
- 13.8 Penetrations and upstands of the membranes must be raised above the level of any possible flooding caused by the blockage of roof or deck drainage.
- 13.9 The design of details not covered by the Technical Literature is subject to specific weathertightness design and is outside the scope of this Appraisal.



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SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

Water Supplies

- 14.1 Water is not contaminated by Soprema DuO Roof and Deck Membrane Systems.
- 14.2 The first 25 mm of rainfall from a newly installed Soprema DuO Roof and Deck Membrane Systems roof must be discarded before water collection starts. This is to remove residues which may have developed in the processes involved in the production of a Soprema DuO Roof and Deck Membrane Systems roof.
- 14.3 Though Soprema DuO Roof and Deck Membrane Systems will not contaminate water, it must be noted that all water collected off roof surfaces made from any material is considered to be non-potable due to possible contamination from other sources. Water collection in this way can only be considered potable if it has been passed through a suitable sterilization system and tested. Sterilization systems such as this have not been assessed and are outside the scope of this Appraisal.

Installation Information

Installation Skill Level Requirement

- 15.1 All design and building work must be carried out in accordance with the Soprema DuO Roof and Deck Membrane Systems Technical Literature and this Appraisal. All building work must be undertaken by Equus Industries Ltd approved 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.

Preparation of Substrates

- 16.1 Substrates must be dry, clean and stable before installation commences. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents. All surface defects must be filled to achieve an even and uniform surface.
- 16.2 The relative humidity of concrete substrates must be 75% or less before membrane application. The concrete can be checked for dryness by using a hygrometer, as set out in BRANZ Bulletin No. 585.
- 16.3 The moisture content of the plywood and timber substructure must be a maximum of 20% and the plywood sheets must be dry at time of membrane application. This will generally require plywood sheets to be covered until just before the membrane is laid, to prevent rain wetting.
- 16.4 All substrates must be primed with DuO Primer and left to dry before the membrane is installed.

Membrane Installation

- 17.1 The membranes must be installed in accordance with the Technical Literature.
- 17.2 All roof and wall junctions must have a 20 mm x 20 mm wooden fillet installed at the junction. Concrete substrate junctions must have a 20 mm x 20 mm cement mortar fillet installed. All external edges must be chamfered to a 5 mm radius to remove sharp edges. Alternatively, bitumen fillets of 25 mm x 25 mm can be used.
- 17.3 The membrane is installed from the lowest point allowing 80 mm side overlap and a 100 mm end overlap. The cap sheet layer must be offset against the base sheet layer. *[Note: These are minimum overlap widths. Refer to the Technical Literature for the specific overlap widths for the product being specified.]*

Inspections

- 18.1 Critical areas of inspection for waterproofing systems are:
 - Construction of substrates, including crack control and installation of bond breakers and movement control joints.
 - Moisture content of the substrate prior to the application of the membrane.
 - Acceptance of the substrate by the membrane installer prior to application of the membrane.
 - Installation of the membrane to the manufacturer's instructions.



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SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS

Basis of Appraisal

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

Tests

19.1 The following is a summary of the testing and test reports on Soprema DuO Roof and Deck Membrane Systems:

- Physical properties included tensile strength, elongation, tear strength, dimensional stability.
- Service performance testing included low temperature flexibility, heat resistance, static and dynamic indentation, fatigue cycling and peel resistance.
- Testing by SGS for dimensional stability, tear resistance, tensile strength, elongation at break, low temperature flexibility, heat resistance and tensile shear at joints.
- British Board of Agrément No. 98/3537.

The above test methods and results have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

- 20.1 A durability opinion has been provided by BRANZ technical experts.
- 20.2 Installation of the membranes has been assessed by BRANZ for practicability of installation and found to be satisfactory.
- 20.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 21.1 The manufacture of the membranes has 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. The manufacturer of Soprema DuO Roof and Deck Membrane Systems has been assessed and registered as meeting the requirements of ISO 9001 and ISO 14001.
- 21.2 The quality of the supply of products to the New Zealand market is the responsibility of Equus Industries Ltd.
- 21.3 Quality on-site is the responsibility of the Equus Industries Ltd approved applicators.
- 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 and this Appraisal.
- 21.5 Building owners are responsible for the maintenance of the membrane systems in accordance with the instructions of Equus Industries Ltd and this Appraisal.

Sources of Information

- AS/NZS 1170:2002 Structural design actions.
- AS/NZS 2269:2012 Plywood – structural.
- BRANZ Good Practice Guide: Membrane Roofing, October 2015.
- NZS 3101:2006 The design of concrete structures.
- NZS 3604:2011 Timber-framed buildings.
- Ministry of Business, Innovation and Employment Record of amendments – Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

Amendments

Amendment No. 1, dated 27 April 2022

This Appraisal has been amended to clarify the Appraisal scope.

Amendment No. 2, dated 13 November 2023

This Appraisal has been amended to update the membrane name from DuO B&T Gran/F C250 to Antirock.



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SOPREMA DUO ROOF AND DECK
MEMBRANE SYSTEMS



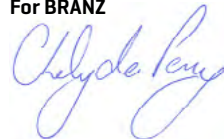
In the opinion of BRANZ, **Soprema DuO Roof and Deck Membrane Systems** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

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 quality of work;
 - 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



Chelydra Percy
Chief Executive

Date of Issue:
07 July 2021

ANTIROCK

Description:

ANTIROCK waterproofing membrane is composed of SBS modified bitumen and a non-woven polyester reinforcement. Its top face is covered with mineral granules and its underface is protected by a thermofusible plastic film.

ANTIROCK membrane is designed to waterproof bridges.

Installation:

HEAT-WELDED

ANTIROCK is mechanically installed (Macaden, Mini-Mcaden) or heat-welded with a propane torch.

It must be installed by thermofusion on dry and clean surfaces previously primed with **SOPRADERE QUICK** primer.

Side laps must be a minimum of 75 mm and end lap joints must be a minimum of 150 mm.

Decks that re to be waterproofed with membrane must conform to the specified surface profile (CSP) of 3-5 of the International Concrete Repair Institute (ICRI). Shotblasting with steel balls is recommended over the entire surface.

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

Properties:

Properties	Standards	ANTIROCK
Stain energy, MX/XD	CAN-CSGB-37.56-M 9 th draft	9.0 / 7.0 kN/m
Breaking strength	CAN-CSGB-37.56-M 9 th draft	17.0 / 12.5 kN/m
Tensile strength	ASTM D5147	17.0 / 11.5 kN/m
Ultimate elongation, MD/XD	CAN-CSGB-37.56-M 9 th draft	60 / 65 %
Elongation at maximum load, MD/XD	ASTM 5147	50 / 65 %
Cold bending	CAN-CSGB-37.56-M 9 th draft	- 30 °C
Low temperature flexibility	ASTM 5147	- 20 °C
Static puncture	CAN-CSGB-37.56-M 9 th draft	400 N
Static puncture	ASTM D5602 modified	215 N

(All values nominal)



Packaging:

Thickness	4.5 mm
Reinforcement	Non-woven polyester
Dimensions	8 x 1 m (26 x 3.3 pi) 200 x 1 m (656 x 3.3 pi)*
Weight	45 kg 1150 kg
Selvedge width	75 mm
Surface	Granules : grey
Underface	Thermofusible plastic film

(All values are nominal)
On order only.

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.



Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214
Email: admin@equus.nz
Website: www.equus.nz
October 2023

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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

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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

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SOPRADERE QUICK

Cold applied fast drying primer

February 2024



PURPOSE AND AREAS OF USE:

Cold applied fast drying primer based on bitumen, solvents and adhesion-improving additives. Impregnation to ensure good adhesion to substrate (concrete, metal and wood) before welding (torch-on or hot-air method) or gluing bituminous waterproofing membranes. It is also suitable on old/weathered bituminous waterproofing membranes with a slate or granulated finish.

STANDARD PACK:

Can of 5 and 21 L.

PROPERTIES:

Composition	Bitumen, solvents and adhesion-improving additives.
Curing time	530 min.
Consumption (l/m ²)	0.15-0.25
Application temperature	Min +5°C

INSTALLATION:

Thoroughly mix the product before use. Apply with a brush, roller or rubber squeegee on a dry, dust and grease free substrate. Allow to dry completely before applying the membrane. See label for more information.

CLEANING:

Wet product - white spirit.

HEALTH AND SAFETY:

For more information, please refer to the relevant Safety Data Sheet (SDS).

SOPREMA has always attached the highest importance to the quality of the products, the environment and safety. For this reason, they 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
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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
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ALSAN FLASHING

Liquid waterproofing membrane

March 2024

DESCRIPTION:

ALSAN FLASHING is a waterproofing one-component polyurethane/bitumen resin. It is dedicated to roof flashings and details where it is difficult to apply waterproofing membranes.

A one-component product with no mixing required makes for easy application. This solution offers superior protection against moisture, and flexibility for effortless waterproofing of irregular shapes, making it an ideal choice for quick and cost-effective repairs.



APPLICATION:

Surface Preparation:

- Concrete must be fully cured (28 days) with a minimum hardness of 24 MPa (3500 psi). Surface needs to be sound, clean and free of dust or debris.
- Concrete surface must be prepared to obtain concrete surface profile (ICRI CSP) of 3 or 4. To obtain such a profile, the use of special equipment such as shotblasting is recommended.
- **Without primer:** traditional granulated and sanded bituminous waterproofing membranes, wood, metal, pre-paint metal, concrete, polyurethane membrane (TRAFIK HP) and PVC pipe (vertical partition wall only).
- **With primer:** (SOPRADERE QUICK): Membranes with HDPE surface.
- PVC pipe must be sanded with sandpaper.
- All metal surfaces must be cleaned with non-greasy solvent such as acetone or Methyl Ethyl Ketone (MEK). Metal surfaces must be smooth, clean and uncontaminated (free of oxydised bitumen).
- When needed, concrete reparation must be done with appropriate products.

Application:

- Mix the product well before use.
- ALSAN FLASHING is applied with a trowel, a brush or roller in two (2) layers, or in three (3) layers when approved reinforcement is required. Each layer must have a minimum wet film thickness of 0.8 mm (30 mil).
- Transitions, changes in plan and junctions between two supports, must be reinforced with approved reinforcement. Approved reinforcement is installed in a first layer of ALSAN FLASHING. This layer must be thick enough to completely immerse the reinforcement. The approved reinforcement will be immediately covered with a second layer of ALSAN FLASHING until saturation.
- Third coat will be applied after 3 hours or when the second coat is tacky free.
- ALSAN FLASHING is UV resistant. It can be left exposed without protection. For aesthetic purposes, the top coat can also be covered with roofing granules.
- Do not use if rain or snow is predicted within 12 hours after the installation.

For proper curing, minimum application temperature is 5°C.
Service temperature: -30 to 150°C.

PACKAGING:

Packaging	Coverage	Wet film thickness	Dry film thickness
ALSAN FLASHING 19L	23 m ²	0.8 mm	0.6 mm

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

ALSAN FLASHING

Liquid waterproofing membrane

March 2024

PROPERTIES:

Properties	Test Method	ALSAN FLASHING Reinforced*
Physical state	-	Brown viscous liquid
Density at 25°C	-	1.07 kg/L
Solids content	-	80%
Softening point	-	150°C
Ultimate elongation	ASTM D412	500%
Breaking strength	ASTM D412	1.35 MPa
Peel resistance	ASTM D903	102.3 N
Tear resistance	ASTM D 5147, sec.7	235.5 N
Water vapour permeance	ASTM E96 (Procedure B)	< 30 ng/Pa•s•m ² (< 0.47 perm)
Peel adhesion after water immersion	ASTM C836	792 N/m
Drying time	-	Ready to recoat after 2 hours Dry: 12 hours (remains tacky to touch)
Fully cured*	-	3 days
Abrasion resistance*	AS 1580.403.2	Pass
Bond strength* (on granulated membranes)	ASTM D903	> 1000 N/m
Cyclic movement*	CSIRO Moving Joint Test	Pass
Elongation at break*	AS1145	> 200%
Heat aging*	Appendix A4-AS 4654	Pass
Temperature resistance*	AS 4654-2	Pass
Tensile strength at max load*	Appendix A4-AS 4654	> 6.5 kN/m
UV resistance / durability*	Appendix A4-AS 4654	Pass

* with approved reinforcement.

SCOPE OF USE:

ALSAN FLASHING can be used for waterproofing roofs, balconies, decks, terraces and foundations. In Equus SOPREMA membrane waterproofing systems it is generally used as a liquid detailing membrane. Suitable for new builds and refurbishments, residential and commercial construction, in any location in New Zealand. Suitable for other applications with written approval by Equus Industries Ltd.

CONDITIONS OF USE:

- For proper curing, minimum application temperature is 5°C.
- Service temperature: -30 to 150°C.

Written approval is required for this product to be in a 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.

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

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ALSAN FLASHING

Liquid waterproofing membrane

March 2024

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (a) ALSAN FLASHING has a durability of at least 15 years when installed with the correct specification, installation and maintenance. Re-coating specifications are available to extend the life of the membrane.

E2 External moisture - E2.3.1, E2.3.2, E2.3.7 ALSAN FLASHING test data together with in-service history of the correctly installed ALSAN FLASHING system over correctly designed and constructed substrates, show that the membrane resists the ingress of moisture.

F2 Hazardous building materials - F2.3.1 Experience with the composition of materials used together with in-service history, show that ALSAN FLASHING complies with this performance requirement. Refer to SDS at www.equus.nz

SUPPORTING DOCUMENTATION:

Test reports can be provided by SOPREMA New Zealand Ltd.

STORAGE & HANDLING:

Shelf life: 12 months, pot must be stored in the delivery packaging, in a dry and protected environment.

For more information, refer to the instructions on the container label and relevant 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:

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To see or download full size details click here

Note: Contact Equus or Soprema to check the asphalt compatibility with the Antirock membrane. Minimum thickness for asphalt cover is 40mm for light vehicular traffic. Final thickness depends on asphalt type and specification.

- 1 Concrete Deck
- 2 EQUUS SOPREMA ANTIROCK primer
- 3 EQUUS SOPREMA ANTIROCK
- 4 Asphalt

PROJECT :	ANTIROCK Standard Detail
TITLE :	Build up
NUMBER :	SACCC-D1
SCALE :	NTS
DRAWN BY :	NKT
DATE :	10-May-2023
REVISED :	

Equus Waterproof Membranes Details are specially drawn for use by Local Authorities, Building Contractors, Equus 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 Deck
- 2 EQUUS SOPREMA ANTIROCK primer
- 3 EQUUS SOPREMA ANTIROCK
- 4 EQUUS SOPREMA Duo HT 4 AGRIF C180 Firecare
- 5 EQUUS SOPREMA DeboFlex 2.5 T/F C175, reinforcement strip
- 6 C-Profile termination bar with Alsan Mastic 2200 bitumen sealant
- 7 Overflashing termination bar
- 8 EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant
- 9 Asphalt

PROJECT :	ANTIROCK Standard Detail
TITLE :	Parapet Detail
NUMBER :	SACCC-D2a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	10-May-2023
REVISED :	

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- 1 EQUUS SOPREMA ANTIROCK primer
- 2 EQUUS SOPREMA ANTIROCK
- 3 EQUUS Allproof Dome Clamp Ring Drain
- 4 EQUUS SOPREMA ANTIROCK - as separate piece
- 5 Asphalt
- 6 L-angle
- 7 Cast iron grate
- 8 Neoprene Washer

PROJECT :	ANTIROCK Standard Detail
TITLE :	Drainage Detail
NUMBER :	SACCC-D3a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	18-May-2023
REVISED :	

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- 1 Concrete Deck
- 2 EQUUS SOPREMA ANTIROCK primer
- 3 EQUUS SOPREMA ANTIROCK
- 4 Asphalt
- 5 Wheel Stops
- 6 Chemset Anchors
- 7 EQUUS SOPREMA Alsan Mastic 2200 bitumen sealant

PROJECT :	ANTIROCK Standard Detail
TITLE :	Wheel Stops Filing Detail
NUMBER :	SACCC-D4a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	18-May-2023
REVISED :	

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- 1 Concrete Deck
- 2 EQUUS SOPREMA ANTIROCK primer
- 3 EQUUS SOPREMA ANTIROCK, Waterproofing Membrane
- 4 EQUUS SOPREMA ALSAN® FLASHING, Liquid Waterproofing
- 5 EQUUS SOPREMA ALSAN FLEECE, Reinforcement Fleece
- 6 Asphalt

PROJECT :	ANTIROCK Standard Detail
TITLE :	Pipe penetration Detail
NUMBER :	SACCC-D5a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	24-Jul-2023
REVISED :	

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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.



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