



EQUUS SOPREMA SOPRASUN MEMBRANE SYSTEM

Standard Building Consent Package



CELEBRATING

40 YEARS
1982-2022

NOVEMBER 2023

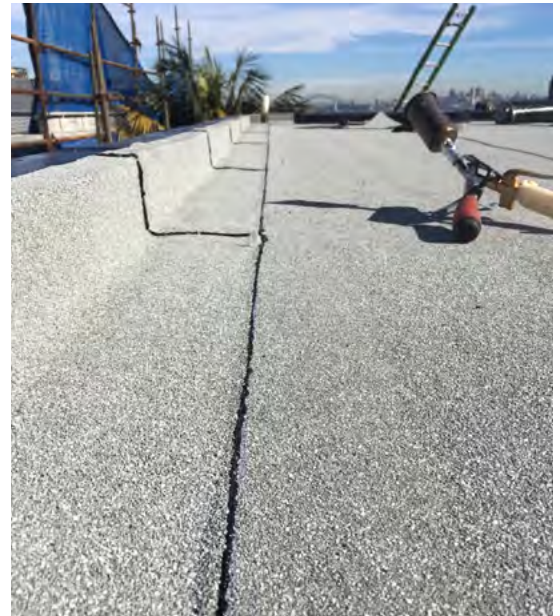


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EQUUS SOPREMA SOPRASUN PLUS is a two-layer bitumen waterproofing membrane system, designed to meet the requirements and environmental challenges of the New Zealand climate, while still providing an economical waterproofing solution.

This system offers the building owner an attractive coloured slate finish, provides protection against the demanding local weather conditions, and maintains peace of mind with a 20 year material warranty.



EQUUS SOPREMA SOPRASUN PLUS

The EQUUS SOPREMA SOPRASUN PLUS membrane system consists of the SOPRASUN PLUS 4.5KG MINERAL cap sheet torched to the SOPRASUN PLUS 3 base sheet, forming a two-layer waterproofing membrane system suitable for flat roof waterproofing.

SOPRASUN PLUS 4.5KG MINERAL is a plastomeric reinforced modified bitumen waterproofing membrane (APP), manufactured to retain excellent technical characteristics. The composite reinforcement, and APP modified bitumen allows the softening point to increase from 50°C to 140-150°C. This creates a more forgiving membrane when installing in hot conditions.

This system can be used on plywood or concrete substrates to form a standard cold roof system or over thermal insulation to provide a warm roof system.

Available in Grey



System Components:

- SOPRASUN PLUS 4.5KG MINERAL
- SOPRASUN PLUS 3
- Bitumen Primer
- Alsan Mastic 2200
- Thermal insulation for warm roof systems

Key Benefits:

- CodeMark Certified
- BRANZ Appraised
- Economical solution
- Proven UV resistance
- Excellent dimensional stability and durable performance
- Can be installed any time of the year, wide temperature tolerance



CodeMark 
CMNZ70151


BRANZ Appraised
Appraisal No.819 [2019]

Equus SOPREMA Technical Support:

- Project specific specifications and details
- Condensation risk analysis for warm roof systems
- Wind uplift study for warm roof systems
- On-site quality assurance
- Nationwide network of Certified Applicators
- Warranties available

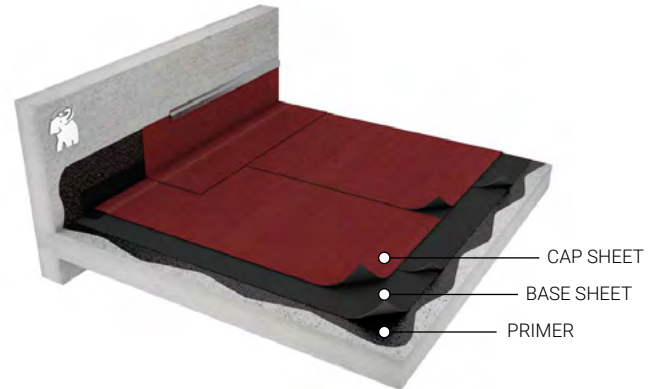
SYSTEM OPTIONS

EQUUS SOPREMA SOPRASUN PLUS membrane systems offer great waterproofing design tailored to your needs.

CONVENTIONAL ROOF SYSTEM

Exposed roof | Non-trafficable

The waterproofing system is applied directly onto the construction deck. This is a fast and cost effective way to waterproof an exposed roof.

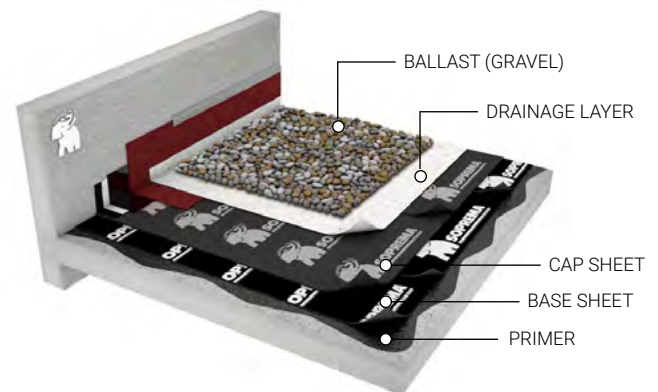


BALLASTED / GREEN ROOF SYSTEM

Protected roof | Non-trafficable

The waterproofing system is protected from weathering and UV.

Using a drainage layer will allow the roof to drain freely and not be affected by the build up of silt that can form over the years.

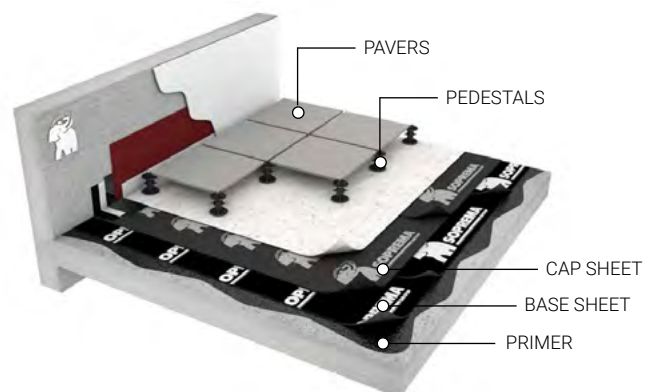


PAVED ROOF SYSTEM

Protected roof | Trafficable

Designed for areas with heavy pedestrian traffic. The waterproofing system is installed, and then protected with paving slabs.

The Equus FIXPLUS pedestal range pavers allows continuous and effortless adjustments and leveling of slabs.

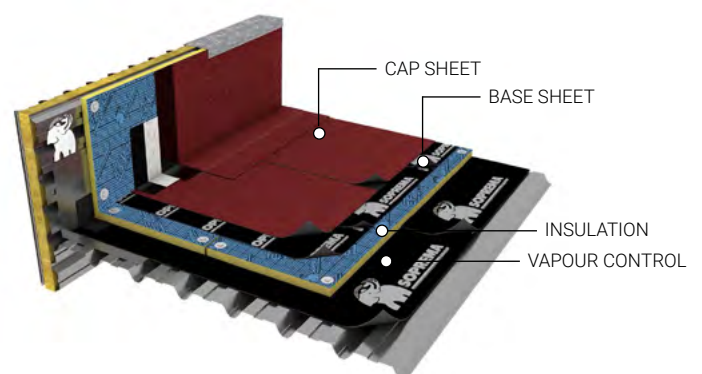


WARM ROOF SYSTEM

Protected roof | Non-trafficable

Provides the longest available expected lifetime based on proven durability of the waterproofing in NZ climate conditions.

It's a light-weight, thermally insulated roofing system which consists of a two-layer membrane system applied over a rigid thermal PIR or SOPRAROCK mineral wool insulation board and vapour barrier. This guarantees a continuous and efficient thermal resistance (R-value) for a healthier building.



4421ES EQUUS SOPRASUN PLUS ROOF & DECK MEMBRANE BY SOPREMA

1 GENERAL

This section relates to the supply and installation of Equus Industries Limited SOPREMA SOPRASUN PLUS Roof and Deck Membrane System, a two-layer modified-bitumen waterproofing membrane for cold and SOPREMA SOPRATHERM system for warm roofs.

It includes:

- Modified bitumen waterproofing membranes
- All required components and accessories to complete installation

1.1 RELATED WORK

Refer ~ for ~

1.2 ABBREVIATIONS AND DEFINITIONS

Refer to the general section 1232 INTERPRETATION & DEFINITIONS for abbreviations and definitions used throughout the specification.

The following abbreviations apply specifically to this section:

APP	Atactic Polypropylene
CLT	Cross Laminated Timber
PIR	Polyisocyanurate
SBS	Styrene-butadiene-styrene

The following definitions apply specifically to this section:

APP modified bitumen	Plastomer modified bitumen.
Cold roof	Roof assembly where insulation is below the roof deck, in the ceiling cavity or between the joists
Warm roof	Roof assembly where rigid insulation is above the roof deck with a waterproofing membrane over the insulation

Documents

1.3 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC B2/AS1	Durability
NZBC E2/AS1	External moisture
NZS 1170.2:2011	Structural design actions - Wind actions
AS 1562.1-1992	Design and installation of sheet roof and wall cladding - Metal
AS 2122.1.	Combustion propagation characteristics of plastics - Part 1: Determination of flame propagation following surface ignition of vertically oriented specimens of cellular plastics
NZS 3114	Specification for concrete surface finishes
NZS 3604	Timber-framed buildings
AS/NZS 4859.1	Thermal insulation materials for buildings - General criteria and technical provisions
HB 39-1997	Installation code for metal roof and wall cladding
WMAI CoP	Waterproofing Membrane Association New Zealand – Reinforced Modified Bitumen Membrane Systems for Roofs and Decks Code of Practice
CodeMark CMNZ70151	Soprema NZ Ltd Waterproofing Membrane Systems

1.4 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

Soprema Roofer's Guide Bituminous Membranes 2021
Product Technical Data Sheets and Safety Data Sheets
BRANZ Appraisal No. 819 SOPREMA ROOFING MEMBRANE SYSTEMS

Equus Industries Limited Office Master 4421ES

BRANZ Appraisal No. 1169 EQUUS SOPREMA WARM ROOF SYSTEM
Equus SOPREMA SOPRASUN PLUS and SOPRATHERM standard detail drawings

Manufacturer/supplier contact details.

Company: Equus Industries Ltd
Web: www.equus.nz
Email: info@equus.nz
Telephone: Northern Branch, Auckland: 09 415 4314
Central Branch, Wellington: 04 576 0333
Southern Branch, Christchurch: 03 353 2434

Warranties

1.5 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:

20 years For Equus SOPREMA SOPRASUN PLUS membrane or
SOPRATHERM warm roof system against failure under NZ climate
conditions.

- Provide this warranty on the **Equus Industries Ltd** standard form (if unavailable use the standard form in the general section 1237WA WARRANTY AGREEMENT)
- Commence the warranty from the date of Practical Completion of the contract works.

Refer to the general section 1237 WARRANTIES for additional requirements.

Note: Soprema provides an additional material manufacturer warranty to the above. Refer to Equus Industries Ltd and Soprema for details.

1.6 WARRANTY - INSTALLER/APPLICATOR

Provide an Equus installer/applicator warranty:

10 years For application of Equus SOPREMA SOPRASUN PLUS
membrane or SOPRATHERM warm roof systems

- Provide this warranty on the installer/applicator standard form (if not available then use the standard form in the general section 1237WA WARRANTY AGREEMENT)
- Commence the warranty from the date of practical completion of the contract works.

Refer to the general section 1237 WARRANTIES for additional requirements.

Requirements

1.7 NO SUBSTITUTIONS

Substitutions are not permitted to any specified Equus Soprema system, or associated components and products unless approved by Equus.

1.8 QUALIFICATIONS - MANUFACTURER / SUPPLIER REQUIREMENTS

Workers to be certified by Equus Industries Ltd. Refer to 1270 CONSTRUCTION for additional requirements relating to qualifications.

1.9 PRE-INSTALLATION MEETING

Convene a meeting between the applicator, contractor, all associated consultants and Equus Industries Ltd where appropriate to ensure all parties know what is required for effective performance of the system.

1.10 PROJECT SPECIFIC DETAILS

Where a standard detail does not exist, an approved alternative can be obtained from Equus Industries Ltd.

Compliance information

1.11 INFORMATION REQUIRED FOR CODE COMPLIANCE

Provide the following compliance documentation: -

- Applicator approval certificate from the manufacturer / importer / distributor

- Manufacturer / supplier warranty
- Installer / applicator warranty
- Producer Statement - Construction from the applicator / installer
- Other information required by the BCA in the Building Consent Approval documents.

Performance

1.12 PERFORMANCE

Accept responsibility for the weather-tight performance of the completed membrane roofing system, including all penetrations through the roof and junctions with walls and parapets. All penetrations to comply with [NZBC E2/AS1](#) clause 8.5.9 - 'Penetrations' and **Equus** recommendations.

1.13 PERFORMANCE DURABILITY

Equus SOPREMA SOPRASUN PLUS and SOPRATHERM insulated roof system complies with [NZBC B2/AS1](#) when maintained to Equus Industries Limited requirements.

1.14 PERFORMANCE - ENERGY EFFICIENCY

Equus PIR insulation board has an aged thermal resistance (R Value) TO [AS/NZS 4859.1](#).
Equus PIR insulation boards have a thermal conductivity 0.021 W/mK for 50mm-70mm thick boards and 0.020 W/mK for 80mm-100mm thick boards. Refer to SELECTIONS for R-value.

1.15 PERFORMANCE - FIRE SAFETY

Equus PIR insulation board complies with the flame propagation criteria as specified in AS 2122.1.

Performance – Wind

1.16 WIND DESIGN PARAMETERS – NON-SPECIFIC DESIGN

Installation to be in accordance with Equus Industries Limited requirements and as appropriate for the project wind design stated in the general section 1220 PROJECT.

Suitable for design wind pressures up to and including Extra High Wind Zone to [NZS 3604](#).

1.17 WIND DESIGN PARAMETERS – SPECIFIC DESIGN

Equus and Soprema provide job-specific wind load calculations to [NZS 1170.2](#) for all specifically designed buildings using Equus Soprema waterproofing systems. Refer to the project wind design stated in the general section 1220 PROJECT.

Quality control and assurance

1.18 QUALITY ASSURANCE

The Equus Certified Applicator is responsible for onsite QA following the standard Equus SOPREMA SOPRASUN PLUS and SOPRATHERM Quality Assurance (QA) Checklists.

1.19 TESTING - FLOOD

Where practical flood test horizontal applications with a minimum 50mm depth of water for 24 hours. Make good any lack of water tightness when the surface is completely dry. Repeat water test process after making any necessary repairs.

1.20 TEST - ELECTRONIC LEAK DETECTION

Carry out leak detection test using selected electronic leak detection system.

Test the waterproof membrane using Electronic Leak Detection procedure upon completion of membrane installation and prior to any covering. Test to be carried out by experienced operator. Make good any lack of water tightness when the surface is completely dry. Depending on conditions, repeat a total or localised test process after making repairs.

2 PRODUCTS

Materials - Cold Roof - SOPRASUN PLUS two-layer waterproofing membrane system

2.1 PRIMER - SOPRADERE QUICK PRIMER

Bitumen primer for torch-applied modified-bitumen membranes.

2.2 BASE SHEET - SOPRASUN PLUS 3 – TORCH APPLIED, FULLY ADHERED BASE SHEET

Equus Industries Limited Office Master 4421ES

3mm thick APP-modified bitumen waterproofing base sheet with composite reinforcement supplied in 1m x 10m rolls.

2.3

CAP SHEET - SOPRASUN PLUS 4.5KG MINERAL – TORCH-APPLIED – FULLY ADHERED CAP SHEET

4mm thick APP-modified bitumen waterproofing cap sheet with mineral finish for additional UV protection supplied in 1m x 10m rolls.

Materials - Warm roof: SOPRATHERM insulated warm roof system

2.4 **PRIMER - EQUUS PEEL & STICK PRIMER**

Rubber based adhesive primer for self-adhered, modified-bitumen membranes.

2.5

VAPOUR BARRIER - COLPHENE 3000 – SELF-ADHESIVE, FULLY ADHERED VAPOUR BARRIER

1.5mm thick, self-adhesive SBS modified bitumen vapour barrier with tri-laminated woven polyethylene to upper surface supplied in 1m x 18.7m rolls.

2.6 **EQUUS PIR INSULATION BOARD**

EQUUS PIR insulation board with a core of rigid polyisocyanurate foam faced on both sides by gaslight multi-layered complex.

Equus PIR thermal insulation board is supplied in the following thicknesses:

- 50mm - R value 2.35
- 60mm - R value 2.85
- 70mm - R value 3.30
- 80mm - R value 4.00
- 90mm - R value 4.50
- 100mm - R value 4.85
- 140mm – R value 6.60

2.7 **TAPERED EQUUS PIR INSULATION BOARD**

EQUUS tapered PIR insulation board with a core of rigid polyisocyanurate foam faced on both sides by gaslight multi-layered complex are supplied in different gradients to suit specified roof fall.

2.8 **BASE SHEET SOPRASTICK VENTI TACK PLUS - SELF-ADHESIVE**

Self-adhesive flexible waterproofing membrane for use as a base sheet.

2.9

CAP SHEET - SOPRASUN PLUS 4.5KG MINERAL – TORCH-APPLIED – FULLY ADHERED CAP SHEET

4mm thick APP-modified bitumen waterproofing cap sheet with mineral finish for additional UV protection supplied in 1m x 10m rolls.

Components

2.10 **EQUUS SOPREMA C-PROFILE**

Cap sheet termination piece.

2.11 **EQUUS SOPREMA ROOF EDGE PROFILE**

Cap sheet termination piece for use at roof edges.

2.12 **ALSAN MASTIC 2200 SEALANT**

Flexible, rubber-modified bitumen sealant for use with Equus SOPREMA bitumen membranes.

2.13 **BITUMEN ANGLE FILLET**

Bitumen angle fillet.

2.14 **ALSAN FLASHING LIQUID DETAILING MEMBRANE**

Polyurethane bitumen liquid waterproof coating for roof details

2.15 **EQUUS SOPREMA FASTENERS**

Equus SOPREMA fastening system for fixing of insulation boards and base sheets. Available in different lengths to suit different substrates.

Accessories

- 2.16 ROOF VENT
Equus Short Roof Vent domed vent 250mm Ø x 100mm high.
- 2.17 OUTLETS - ROOF DRAINS AND OVERFLOWS
Allproof roof drains and overflows. Refer to SELECTIONS.
- 2.18 OUTLETS - SCUPPER
Equus Stainless Steel Scupper 200mm aperture width x 75mm aperture height.
- 2.19 FLOATING DECK AND PAVER SUPPORT SYSTEM
Refer to 4381EF EQUUS FIXPLUS DECK & TILE SUPPORT SYSTEM.
- 2.20 EQUUS SOPREMA KRAITEC STEP RUBBER TILE
Rubber tiles 500mm x 500mm x 30mm thick with integrated drainage pattern for balconies, terraces or walkways for roof maintenance.
Standard colour: Grey with black, green and red available on request. Refer to SELECTIONS.
- 2.21 EQUUS SOPREMA SOPRASOLAR FIX EVO TILT
Non-penetrating support system for solar photovoltaic panels.

3 EXECUTION

Conditions

- 3.1 DELIVERY, STORAGE & HANDLING OF PRODUCTS
Refer to 1270 CONSTRUCTION for requirements relating to delivery, storage and handling of products.
- 3.2 ROUTINE MATTERS
Refer to 1250 TEMPORARY WORKS & SERVICES for protection requirements.
Refer to 1270 CONSTRUCTION for requirements relating to defective or damaged work, removal of protection and cleaning.
- 3.3 PRE-INSTALLATION REQUIREMENTS
Check work previously carried out and confirm it is of the required standard for this part of the work.
Moisture content:
Concrete substrate - Relative Humidity of maximum 75%.
Plywood/timber substrate - moisture content of maximum 20%

Confirm that the substrate, including fillets, sumps, outlets and projections, will ensure work of the required standard. Ensure the falls are the correct falls to rainwater outlets to avoid ponding.
- 3.4 INSTALLATION SEQUENCE - WARM ROOF SYSTEMS
Install SOPREMA SOPRATHERM system components, vapour barrier, insulation sheets with membrane in sections to produce a weather-tight section each day complete with all joint seams, edge flashings and terminations. Cover off exposed edge at the end of each workday or if rain is imminent to ensure complete system remains dry.

Installation/application

- 3.5 GENERALLY
All work and materials to comply with Equus Industries Ltd installation instructions, [NZBC E2/AS1](#), SOPREMA Roofer's Guide Bituminous Membranes 2021 and the WMAI Code of Practice for Reinforced Modified Bitumen Membrane Systems for Roofs and Decks.
- 3.6 STANDARDS AND TOLERANCES
Refer to the general section 1270 CONSTRUCTION for general requirements.
- 3.7 PRELIMINARY WORK
Ensure that preliminary work, including formation of falls, flashing rebates, grooves, ducts, penetrations, provision of battens and fillets and fixing of vents and outlets to levels, is complete and properly constructed to enable the system to work as intended. This work and the substrate to be smooth, clean, dry and stable.
- 3.8 MINIMUM FALLS

Ensure minimum falls for SOPREMA SOPRASUN-PLUS and SOPREMA SOPRATHERM membrane systems are:

- minimum fall for a roof and deck is not less than 1:80 (0.7°), to CodeMark [CMNZ70151](#)
- minimum fall for a gutter is not less than 1:100 (0.57°), to CodeMark [CMNZ70151](#)

Substrate - ALL ROOFS

Plywood substrate

3.9 PLYWOOD SUBSTRATE

Plywood minimum 17mm thick for roofs, and 21mm thick for decks. Lay sheets tight butt jointed to maximise the use of whole sheets with sheet joints laid over framing members, in a staggered brick-bond pattern, running across the fall of the roof.

Fix plywood in accordance with the manufacturer's instructions using countersunk stainless-steel screws, with all sheets laid in a bead of construction adhesive. Screws fixed at 150mm centres on sheet perimeter and 200mm through the body of the sheet. Fix tongue and groove plywood to same specification.

Concrete substrate

3.10 CONCRETE SUBSTRATE

Allow sufficient drying time after the concrete has been poured which is generally between 14 and 28 days.

Ensure that all traces of curing compound are gone or removed before commencing installation and any holes or voids are patched.

Finish concrete to NZS3114:1987 U3, with a light trowel texture. Stone flush all ridges and protrusions.

Water blast to remove all detritus and allow to dry.

Thoroughly inspect existing substrates and structures prior to specification.

3.11 EXPANSION MOVEMENT JOINTS

For expansion/ movement joints refer to details on the drawings.

Metal Tray Substrate

3.12 METAL TRAY SUBSTRATE

Confirm metal tray substrate is minimum 0.7mm gauge reverse profile run metal roofing to AS 1562.1-1992 and HB 39-1997. Installed in accordance with manufacturer's and Equus requirements.

CLT Substrate

3.13 CROSS LAMINATED TIMBER (CLT)

Lay all sections to manufacturer's instructions with all edges fully supported. Ensure joints are flush with edges chamfered and the surface is even and left clean and free of debris and dry before membrane application.

Application - Electronic Leak Detection - conductive surface (by membrane installer)

3.14 INSTALL ELECTRONIC LEAK DETECTION CONDUCTIVE SURFACE

Install electronic leak detection conductive surface, in accordance with manufacturer's requirements. Refer to SELECTIONS.

Application - concrete, plywood & CLT substrates - COLD ROOF: SOPRASUN PLUS 2 layer system

3.15 PRIME SUBSTRATE

Prime the dried and prepared surface with Sopradere Quick Primer by roller or brush, at a spreading rate of 5m² per litre, ensuring a good even coverage and penetration as recommended by Equus Industries Ltd. Application to include upstands to a minimum height of 150mm adjacent to all horizontal surfaces being coated. Consumption rates will depend on surface profile and porosity. Allow the primer to fully dry for 4 to 24 hours depending on prevailing weather conditions. Prevent contamination of the primed surface prior to application of the membrane.

3.16 INSTALL BASE SHEET MEMBRANE - SOPRASUN PLUS 3

Decide the most suitable direction to follow. Unroll the roll and discard packaging. Align and cut to length as required. Re-roll both ends to the middle, then torch evenly overall to both base sheet and primer as the membrane is unrolled. Evenly torch off the sacrificial film at the back of the membrane using a sweeping motion to maintain even heat across the roll. Ensure even heat application. Repeat in sequence with all rolls, maintaining laps of minimum 80mm. Offset end laps in adjacent runs. End laps shall be minimum 150mm.

3.17 INSTALL CAP SHEET MEMBRANE - SOPRASUN PLUS 4.5KG MINERAL

Decide the most suitable direction to follow. Unroll the roll and discard packaging. Align and cut to length as required. Re-roll both ends to the middle, then torch evenly to the base sheet as the membrane is unrolled. Ensure even heat application. Repeat in sequence with all rolls, maintaining side laps of minimum 80mm. End laps shall be minimum 150mm. The lap automatically closes during the torching process. All laps shall be offset to prevent coincidence with the base sheet laps.

Application - concrete, plywood, metal & CLT - WARM ROOF: SOPRATHERM insulated system

3.18 PRIME SUBSTRATE

To the dried and prepared surface apply one full coat of EQUUS PEEL AND STICK primer at a spreading rate of 6 to 8 m²/L depending on the porosity of the substrate. Allow to dry for minimum one (1) hour depending upon prevailing weather conditions.

3.19 APPLY PRIMER TO UPSTANDS

Apply one coat of Equus Peel and Stick Primer to upstands using brush, roller with heavy nap or spray at rate of 6-8 sqm/litre to manufacturer's instructions. Allow to dry for 1 hour minimum.

3.20 COLPHENE 3000 (SELF- ADHESIVE)

Decide the most suitable direction to follow. Unroll and discard packaging. Align the first roll and cut to length as required. Remove the siliconised film and press the membrane into place on the surface. The self-adhesive properties are automatically activated during installation. Repeat in sequence with all rolls, maintaining minimum laps of 100mm. Offset end laps in adjacent runs. Over upstands, the vapour barrier shall be taken up 50mm past the top of the insulation board. This ensures a suitable connection to create a complete waterproof envelope of the insulation.

3.21 INSTALL THERMAL INSULATION - EQUUS PIR

Install the Equus PIR insulation boards in a brick-lay pattern to achieve a close tight butt finish without gaps. Fix the boards with EQUUS SOPREMA fixings through the PIR boards into the substrate following the manufacturer's recommendations and fixing patterns.

3.22 INSTALL SELF-ADHESIVE BASE SHEET - SOPRASTICK VENTI TACK PLUS

Decide the most suitable direction to follow. Unroll and align the first roll. Discard packaging. Cut to length as required. Remove the siliconised film and press the membrane into place onto the surface of the insulation. The self-adhesive properties are automatically activated during installation. Light heating is recommended at the edges to ensure all laps are fully closed. Full adhesion is advanced when the SOPRASUN PLUS 4.5KG MINERAL cap sheet is finally torched over it. Repeat in sequence with all rolls, maintaining minimum side laps of 80mm and end laps of 150mm. Offset end laps in adjacent runs.

3.23 INSTALL CAP SHEET: SOPRASUN PLUS 4.5KG MINERAL

Decide the most suitable direction to follow. Unroll the roll and discard packaging. Align and cut to length as required. Re-roll both ends to the middle, then torch evenly to the base sheet as the membrane is unrolled. Ensure even heat application. Repeat in sequence with all rolls, maintaining laps of minimum 80mm. All laps shall be offset to prevent coincidence with the base sheet laps.

Generally

3.24 DETAILING

Detailing shall be carried out using SOPRASUN PLUS 4.5KG MINERAL cap sheet and/or in combination with the Alsan Flashing liquid membrane. This includes all outlets, pipe penetrations, gutter stop ends, parapet upstands, machinery plinths and anything above or below the roof surface. This is carried out before, during or, in some cases, after laying the membrane, depending on the type of detail. All detailing shall be completed in accordance with the manufacturer's technical literature current at the time of design, use, installation and/or maintenance.

3.25 SEALANT

ALSAN MASTIC 2200 shall be used where required.

3.26 MEMBRANE TERMINATION

The membrane will be terminated with C-PROFILE and ALSAN MASTIC 2200 on upstands and parapets as per the manufacturer's termination details.

3.27 COMPLETION

Upon completion of the system it shall be inspected and left for a short period (up to 2-3 weeks) to stabilize. At this time the entire installation shall be rechecked prior to any warranties being issued. Where possible, particularly on the deck areas, carry out a 24 hour pond-test.

Other Application ALL ROOFS

3.28 TRAFFICABILITY

The EQUUS SOPREMA SOPRASUN PLUS system is suitable for roof maintenance foot traffic.

3.29 INSTALL PHOTOVOLTAIC PANEL SUPPORTS

Where photovoltaic panels are to be installed, SOPRASOLAR FIX EVO TILT for bitumen roofs are to be installed as per the installation sheet provided by Equus Industries.

3.30 INSTALL KRAITEC STEP RUBBER TILES

For balconies, walkways and roofing applications with raised floors, install Equus Kraitec Step rubber tiles as per manufacturer's instructions.

Completion & Commissioning

3.31 COMPLETION MATTERS

Refer to 1270 CONSTRUCTION for completion requirements and if required commissioning requirements.

4 SELECTIONS

For further details on selections go to www.equus.nz. Substitutions are not permitted to the following, unless stated otherwise.

Cold Roof

4.1 EQUUS SOPREMA SOPRASUN PLUS TWO-LAYER MEMBRANE SYSTEM

Location:	~
Supplier:	Equus Industries Ltd.
Product:	SOPREMA SOPRASUN PLUS
Substrate	~
Primer:	SOPRADERE Quick Primer
Base sheet:	SOPRASUN PLUS 3
Cap sheet:	SOPRASUN PLUS 4.5KG MINERAL
Colour:	~

Warm Roof

4.2 EQUUS SOPREMA SOPRATHERM WARM ROOF SYSTEM

Location:	~
Supplier:	Equus Industries Ltd.
Product:	SOPREMA SOPRATHERM
Substrate:	~
Primer:	~
Vapour barrier:	COLPHENE 3000

Insulation: EQUUS PIR INSULATION
 Insulation fixing: Mechanical fixing
 Insulation thickness: ~
 Base sheet: SOPRASTICK VENTI TACK PLUS
 Cap sheet: SOPRASUN PLUS 4.5KG MINERAL
 Colour: ~

Accessories

4.3 ROOF VENT

Location: ~
 Type: Equus Short Roof Vent
 Size: 250mm Ø x 100mm high

4.4 ROOF DRAIN

Location:	~
Type/Brand:	~
Size:	~
Downpipe diameter:	~
Grill type:	~

4.5 OVERFLOW

Location: ~
 Type/Brand: ~
 Size: ~
 Downpipe diameter: ~
 Grill type: Overflow

4.6 OUTLETS - STAINLESS STEEL SCUPPERS

Location: ~
 Type/Brand: Equus Stainless Steel Scupper
 Size: 200mm wide x 75mm high aperture

4.7 EQUUS SOPREMA KRAITEC STEP

Location: ~
 Type/Brand: Equus Soprema Kraitec Step
 Size: 500mm x 500mm x 30mm
 Colour: ~

4.8 EQUUS SOPREMA SOPRASOLAR FIX EVO TILT SOLAR PANEL SUPPORTS

Location: ~
 Type/Brand: Equus Soprasolar
 Size: ~

Electronic Leak Detection

4.9 ELECTRONIC LEAK DETECTION SYSTEM

Location: ~
 Substrate: ~
 System: ~



EQUUS SOPREMA SOPRASUN PLUS

Two layer waterproofing membrane system applied to plywood surfaces

Specification No: P31302

Date Prepared: November 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.*	Plywood shall be a minimum 17mm C-D structural plywood for roof areas, and a minimum of 20mm for trafficable deck areas.				
2.*	All sheets laid out to maximize use of whole sheets. All sheet joints to be laid over framing members.				
3.*	Shall be finished to NZS3114:1987 U3, with light trowel texture or suitably diamond ground.				
4.*	Sheets laid tight butt jointed. Where condensation likely, prepare edges with Chevaprime PBT .				
5.*	Screw fixing using countersunk corrosion resistant screws. All sheets laid in a bead of construction adhesive.				
6.*	For two layer plywood installation the first layer maybe power nailed but second layer screw fixed.				
7.*	Falls to be incorporated as per plans: <input type="checkbox"/> Specified falls: or standard minimum falls: <input type="checkbox"/> Gutters 1:100 <input type="checkbox"/> Roof 1:80 <input type="checkbox"/> Deck 1:80				
8.	Plywood surface satisfactory for installation of membrane by Equus Certified Applicator.				
9.	Apply one full coat of SOPRADERE QUICK at spreading rate 5-6 m ² /L. Allow to dry for minimum 1 hour, depending on prevailing conditions.				
10.	Unroll SOPRASUN PLUS 3 base sheet, align and cut to length, discard inner roll packaging, re-roll each end back to center. Torch evenly to both bases heet and primer as unrolled. Maintain laps of approx. minimum 100mm. End laps minimum of 150mm.				
11.	Unroll SOPRASUN PLUS 4.5KG MINERAL cap sheet, align and cut to length, re-roll each end back to center. Torch evenly and off-set laps to not coincide with base sheet. All joints back sealed separately ensure correctly closed. Maintain a minimum 100mm side lap. End laps minimum of 150mm.				
12.	Detailing carried out using SOPRASUN PLUS 4.5KG MINERAL cap sheet and/or ALSAN FLASHING or Matacryl Thix/Dexx Topcoat on all outlets, pipe penetrations, gutter stops ends, parapet upstands, machinery plinths and anything above or below roof surface.				

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



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
13.	Membrane terminated with C-PROFILE and ALSAN MASTIC 2200 sealant				
14.	Install FIXPLUS tile supports, KRAITEC STEP rubber tiles or SOPRASOLAR FIX EVO TILT photovoltaic panel supports where required.				
15.*	System to be inspected on completion.				
16.	Re-inspection of work after 2 – 3 weeks.				

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EQUUS SOPREMA SOPRASUN PLUS

Two layer waterproofing membrane system applied to concrete surfaces

Specification No: P31301

Date Prepared: November 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 correctly formed to falls as per plans and cured at least 28 days prior to membrane application.				
2.*	Concrete to have all ridges and protrusions stoned flush.				
3.*	Shall be finished to NZS3114:1987 U3, with light trowel texture or suitably diamond ground.				
4.*	Depressions flushed with Schomburg ASOCRET BIS 5/40 and allowed to cure 48 hours before overcoating.				
5.*	Ensure outlets are sufficiently sized for anticipated run-off.				
6.*	Falls to be incorporated as per plans: <input type="checkbox"/> Specified falls: or standard minimum falls: <input type="checkbox"/> Gutters 1:100 <input type="checkbox"/> Roof 1:80 <input type="checkbox"/> Deck 1:80				
7.	Concrete surface satisfactory for installation of membrane by Equus Certified Applicator.				
8.	Apply one full coat of SOPRADERE QUICK at spreading rate 5-6 m ² /L. Allow to dry for minimum 1 hour, depending on prevailing conditions.				
9.	Unroll SOPRASUN PLUS 3 base sheet, align and cut to length, discard inner roll packaging, re-roll each end back to center. Torch evenly to both bases heat and primer as unrolled. Maintain laps of approx. minimum 100mm. End laps minimum of 150mm.				
10.	Unroll SOPRASUN PLUS 4.5KG MINERAL cap sheet, align and cut to length, re-roll each end back to center. Torch evenly and off-set laps to not coincide with base sheet. All joints back sealed separately ensure correctly closed. Maintain a minimum 100mm side lap. End laps minimum of 150mm.				
11.	Detailing carried out using SOPRASUN PLUS 4.5KG MINERAL cap sheet and/or ALSAN FLASHING or Matacryl Thix/Dexx Topcoat on all outlets, pipe penetrations, gutter stops ends, parapet upstands, machinery plinths and anything above or below roof 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
12.	Membrane terminated with C-PROFILE and ALSAN MASTIC 2200 sealant				
13.	Install FIXPLUS tile supports, KRAITEC STEP rubber tiles or SOPRASOLAR FIX EVO TILT photovoltaic panel supports where required.				
14.*	System to be inspected on completion.				
15.	Re-inspection of work after 2 – 3 weeks.				

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Certificate no: CMNZ70151

Version: 0

Original issue date: 30 June 2023

Version date: 30 June 2023

1. Certificate Holder Details



SOPREMA NEW ZEALAND LTD
Level 1, 245 High Street, Hutt Central Lower Hutt
5010 New Zealand
www.soprema.com.au

Distributed in New Zealand by:



Equus Industries
info@equus.nz
Ph: +64 3 353 2434
www.equus.nz

2. Product Certification Body

Bureau Veritas Australia Pty Ltd

11/500 Collins Street
Melbourne VIC 3000 Australia

product.certification@bureauveritas.com

Ph: 1800 855 190
www.bureauveritas.com.au

Complaints: The complaints process for this certificate can be found here:
www.bureauveritas.com.au/your-feedback



Product Certificate

SOPREMA NEW ZEALAND LTD Waterproofing Membrane Systems

3. Description of Building Method or Product

Name of the product or method in Aotearoa New Zealand, including any brand names used. Description of what it is and the components that make up any system and its physical attributes including the materials and make-up of the product, where applicable.

Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use

The building method's or building product's catalogue or model identification number or numbers or other unique identifiers that might be used to identify the building product or building method

SOPREMA Waterproofing Membrane Systems are reinforced, double-layer bituminous waterproofing membrane systems, consisting of a cap sheet (DuO, Nova-SK, SOPRASUN and SOPRALENE) used with a basesheet (Soprasun Plus 3, DeboFlex, DeboTack, Soprastick, Nova-SK).

4. Intended use of Building Method or Product

Intended use of the building method or product as described in the product manual and other instructional materials.

A statement of the function or purpose of the building method or product.

SOPREMA Waterproofing Membrane Systems provide a waterproofing system, on new and existing roofs, podiums and decks of any size. SOPREMA Waterproofing Membrane Systems may be installed on a cold roof with insulation installed below the substrate or as a warm roof with PIR or Mineral Wool insulation installed above the substrate. A system incorporating a root-resistant cap sheet can be used in green roofs.

5. New Zealand Building Code Provisions

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system). eg Clause B2 – DURABILITY Performance B2.3.1

How the building method or product complies or contributes can be found in item 9. Basis for Certification.

Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

Clause B2 Durability: Performance Clauses B2.3.1(a*, b), B2.3.2(a*) (* when protected e.g. with pavers or green roof)

Clause E2 External moisture: Performance Clauses E2.3.1 (contributes to), E2.3.2, E2.3.7

Clause F2 Hazardous building materials: Performance Clauses F2.3.1



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Product Certificate

SOPREMA NEW ZEALAND LTD – Waterproofing Membrane Systems



6. Conditions and Limitations of Use

The building method or product's use is to be in accordance with the installation instructions and requirements against which the building method or product was assessed.

Conditions or limitations of conformity for the performance requirements the building method or product is compliant with, including any requirements for people with the qualifications and skills to install or use the building method or product, any known or demonstrated situations where the building method or product should not be used. A statement as to whether there are any matters that should be taken into account in the use or application of the building product or building method and, if so, what those matters are.

NOTE: Together, items 3,4,5 and 6 define scope of use

1. SOPREMA Waterproofing Membrane Systems are certified for use:

- a. on buildings
 - i. within the scope limitations of NZBC Acceptable Solution E2/AS para 1.1 located in all wind zones up to and including Extra High (as in NZS3604:2011), or
 - ii. subject to specific structural engineering design (complying with Verification Method B1/VM1 and referenced Standard AS/NZS1170:2002 Structural Design Actions and relevant cited material standard) up to:
 - 1) a maximum ULS wind design pressure of 4.5 kPa, or
 - 2) higher ULS wind design pressures subject to the manufacturer's site specific fastening requirements to resist wind forces as determined by AS/NZS 1170, and
- b. where the finished fall is not less than 1:80 for roofs, podiums and decks and not less than 1:100 for gutters
- c. applied to the following substrates:
 - i. H3.2 treated timber, including plywood sheets and reconstituted wood panels (Strandboard), Cross laminated timber (CLT) (directly to the timber substrate or to PIR or Mineral Wool boards in between the substrate and basesheet). The preservative treatment shall not be LOSP (light organic solvent preservative) or CuN (copper nitrate).
 - ii. Concrete substrates (directly to the concrete substrate or to PIR or Mineral Wool boards in between the substrate and basesheet).
 - iii. SOPREMA approved metal tray decks (to PIR or Mineral Wool boards in between the metal tray deck substrate and basesheet).
 - iv. SOPREMA approved roof cover boards.
 - v. SOPREMA approved insulated panels.

2. SOPREMA Waterproofing Membrane Systems shall be:

- a. designed and installed in accordance with the SOPREMA Roofers Guide Bituminous Membranes 2021 Edition, and
- b. installed by a SOPREMA Certified Applicator (see <https://equus.nz/find-an-applicator-3/> to find an approved installer in New Zealand).
- c. protected (e.g by pavers) where subject to general pedestrian traffic. For light roof maintenance foot traffic, it is suitable to remain unprotected.



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Certificate no: CMNZ70151

Version: 0

Product Certificate

SOPREMA NEW ZEALAND LTD – Waterproofing Membrane Systems



7. Health and Safety Information

Health, safety, and well-being declarations associated with installation, maintenance, and use of the building method or product, and their specific editions and dates necessary to ensure the performance requirements of clauses F1 to F9 of the Building Code can be met.

The compliance with any manufacturer's installation instructions, maintenance, OH & S Statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

8. Signatures

Name and Signature of the Product Certification Body's (PCB) authorised representative and, where different, the person assigned by the PCB to make the certification decision.

Sam Guindi
Product Certification Manager

For and on behalf of
Bureau Veritas Australia Pty Ltd

9. Basis for Certification

How the performance requirements in the Building Code were met for each of the provisions. Where used as part of a system, the specific contribution to compliance.

- B2 Durability - By testing and comparison with Verification Method B2/VM1
- E2 External moisture - By testing and comparison with Acceptable Solution E2/AS1
- F2 Hazardous building materials - By comparison with the performance requirements of the Building Code clause F2.3.1



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Product Certificate

SOPREMA NEW ZEALAND LTD – Waterproofing Membrane Systems



10. Supporting Documentation for Certification

Reference to any Acceptable Solutions, Verification Methods, New Zealand Standards, or other compliance pathways referenced against each individual performance requirement the building method or product is compliant with, and their specific version and date.

Reference to documents describing tests and evaluations and any other documents relied on for certification or used to prove compliance, including their full title, specific version and date.

- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019
- Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure First edition (Amendment 20), 29 November 2021
- NZS3604:2011 Timber framed buildings
- AS/NZS1170:2002 Structural Design Actions
- ATG 1924 Technical Approval, Belgian Construction Certification Association, 2 November 2022
- ATG 2814 Technical Approval, Belgian Construction Certification Association, 6 April 2021
- BBA Agrément Certificate 20/5843, Soprema Modified Bitumen Membranes, DUO High Tech Waterproofing Membranes, 15 December 2020
- BRANZ Appraisal 520, Novaflex and Polibit Roof and Deck Waterproofing Membranes, 2019
- BRANZ Appraisal 685, Soprema DUO Roof and Deck Membrane Systems, 2021
- BRANZ Appraisal 689, Soprema DUO Roof Membrane Systems, 2021
- BRANZ Appraisal 819, Allnex Soprema Bitumen Roofing Membrane Systems, 2019
- BRANZ Appraisal 1145, Soprema Bitumen Roofing Membrane Systems, 2021
- Roofers Guide Bituminous Membranes 2021 Edition

11. Supporting Information About Description (Optional)

Any supporting information for section 3.

DuO High Tech Waterproofing Membranes comprise a polyester/glass composite reinforcement with an upper coating of thermoplastic polyolefin (TPO)-modified bitumen and a lower coating of styrene butadiene-styrene (SBS)-modified bitumen:

- DuO High Tech — the standard membrane, for use in built-up specifications
- DuO High Tech FC — an enhanced fire-resistance version of the standard membrane
- DuO High Tech Mecano — for use in mechanical fastened specifications
- DuO High Tech FC Mecano — an enhanced fire-resistance version of the DuO High Tech Mecano membrane
- DuO High Tech Landscape — for use on green roofs and planter boxes
- DuO High Tech FC Landscape — an enhanced fire-resistance version of the DuO High Tech Landscape membrane.



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Product Certificate

SOPREMA NEW ZEALAND LTD – Waterproofing Membrane Systems



Nova-SK, and Nova-SK Mineral, are self-adhesive bitumen waterproofing membranes, reinforced with nonwoven spun bond polyester in combination with fiberglass.

SOPRASUN is an APP-modified bitumen waterproofing membrane system consisting of a base and cap sheet:

- SOPRASUN PLUS 3 is an APP-modified bitumen waterproofing base sheet membrane designed for roofing applications. SOPRASUN PLUS 3 is reinforced with a non-woven polyester combined with fiberglass. The top surface is sanded and the bottom surface is covered with a thermofusible plastic film.
- SOPRASUN PLUS 4.5KG MINERAL is an APP-modified bitumen waterproofing cap sheet membrane designed for roofing applications. SOPRASUN PLUS 4.5KG MINERAL is reinforced with a non-woven polyester combined with fiberglass. The top surface is coated with slate chips and selvedge edge is slate free on one side; the bottom surface is covered with a thermofusible plastic film.

SOPRALENE is a SBS-modified bitumen waterproofing membrane system consisting of a base and cap sheet:

- SOPRALENE FLAM 180 and SOPRALENE FLAM 180 GR are SBS-modified bitumen waterproofing membranes designed for roofing applications. Both membranes are reinforced with an ultra-high strength 180g/m² non-woven polyester. SOPRALENE FLAM 180 top and bottom surface are covered with a thermofusible plastic film. SOPRALENE FLAM 180 GR top surface is covered with granules; bottom surface is covered with thermofusible plastic film.
- SOPRALENE FLAM 180 ALU is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement. SOPRALENE FLAM 180 ALU can be used as a protection layer on top of waterproofing systems where fire retardant properties are required. The topside is protected by an embossed aluminium foil and the underside is covered by a thermofusible film.
- SOPRALENE FLAM JARDIN CAP is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement. The topside of SOPRALENE FLAM JARDIN CAP is protected by slate chippings and the underside is covered by a thermofusible film. SOPRALENE FLAM JARDIN CAP bitumen mass contains anti-root penetration properties for green roofs.

DeboFlex is a 2.5 mm I/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 is a flexible self-adhesive waterproofing membrane consisting of a mixture of penetration bitumen, improved with SBS (Styrene-Butadiene-Styrene). It is reinforced with a composite fleece of 175 g/m² polyester and glass.

- DEBOTACK 2.5 T/F C175 is a flexible self-adhesive waterproofing membrane consisting of a mixture of penetration bitumen, improved with SBS (Styrene- Butadiene-Styrene). It is reinforced with a composite fleece of 175 g/m² polyester and glass.
- DEBOTACK 2.5 T/F C175 AERO is a flexible self-adhesive waterproofing membrane consisting of a mixture of penetration bitumen, improved with SBS (Styrene-Butadiene-Styrene). It is reinforced with a composite fleece of 175 g/m² polyester and glass.



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Product Certificate

SOPREMA NEW ZEALAND LTD – Waterproofing Membrane Systems



Soprastick and Soprastick Venti are self-adhesive membrane composed of elastomer modified bitumen and a composite polyester reinforcement. Used as a base layer in combination with a torched upper layer. The upper surface is sanded or protected by a thermofusible film.

12. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

N/A

13. Supporting Information About Conditions and Limitations of Use (Optional)

Any supporting information for section 6.

N/A



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BRANZ Appraised
Appraisal No. 819 [2019]

**SOPREMA ROOFING
MEMBRANE SYSTEMS**

Appraisal No. 819 [2019]

This Appraisal replaces BRANZ
Appraisal No. 819 [2014]

Amended 31 August 2022



BRANZ Appraisals

Technical Assessments of products
for building and construction.



Soprema New Zealand Ltd

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Product

1.1 Soprema Roofing Membrane Systems are a range of double-layer, torch-applied fully bonded reinforced modified-bitumen membranes for use on nominally flat or pitched roofs and decks.

Scope

2.1 Soprema Roofing 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 with respect to building height and maximum floor plan areas; and,
- situated in NZS 3604 Wind Zones up to, and including, Extra High; and,
- the building is subject to specific structural design; and,
- a substrate of plywood on timber framing; or,
- a substrate of suspended concrete slab; and,
- with minimum fall for plywood roofs of 1:30, concrete substrates of 1:60 and all decks of 1:40; and,
- with deck size limited to 40 m².

2.2 Roofs and decks waterproofed with Soprema Roofing Membrane Systems must be designed and constructed in accordance with the following limitations:

- nominally flat or pitched roofs and decks 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 directly discharging to the deck; and,
- with the deck membranes continually protected from physical damage by pedestal protection system.

2.3 The design and construction of the substrate and movement and control joints is specific to each building, and are therefore the responsibility of the building designer and building contractor and is outside the scope of this Appraisal.

2.4 The membranes must be installed by Equus Industries Ltd certified applicators.



BRANZ Appraisal
Appraisal No. 819 [2019]
23 May 2019

SOPREMA ROOFING MEMBRANE
SYSTEMS

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Soprema Roofing 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 Roofing Membrane Systems meet this requirement. See Paragraph 9.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1 and E2.3.2. Soprema Roofing Membrane Systems meet these requirements. See Paragraphs 12.1-12.9.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Soprema Roofing Membrane Systems meet this requirement.

Technical Specification

4.1 Materials supplied by Equus Industries Ltd are as follows:

- **Soprasun Plus 3 and Soprasun Plus 4** - APP modified bitumen sheet waterproofing membranes used as a base layer in a double layer system. The lower face has a thermofusible film which is torched off during application and the upper face is finished with sand. It is supplied as a roll 3 or 4 mm thick, 1 m wide and 10 m long.
- **Soprasun Plus 4.5 kg Mineral** - an APP modified bitumen sheet waterproofing membrane used as a cap sheet in a double layer system. The lower face has a thermofusible film which is torched off during application and an upper face finished with slate chipping. It is supplied as a roll, grey or black in colour, 4 mm thick, 1 m wide and 10 m long.
- **Sopralene Flam 180** - a SBS modified bitumen sheet waterproofing membrane used as a base layer in a double layer system. The lower and upper faces have a thermofusible film which is torched off during application. It is supplied as a roll 3 mm thick, 1 m wide and 10 m long.
- **Sopralene Flam 180 GR** - a SBS modified bitumen sheet waterproofing membrane used as a cap sheet in a double layer system. The lower face has a thermofusible film which is torched off during application and an upper face finished with slate chipping. It is supplied as a roll, black in colour, 4 mm thick, 1 m wide and 8 m long.
- **Soprastar Flam GR** - a SBS modified bitumen sheet waterproofing membrane used as a cap sheet in a double layer system. The lower face has a thermofusible film which is torched off during application and an upper face of high reflective white granules. It is supplied in rolls 4 mm thick, 1 m wide and 8 m long.
- **Sopragum Garden Plus 4** - a APP modified bitumen sheet waterproofing membrane used as a cap sheet in a double layer system. The lower surface has a thermofusible film which is torched off during application and an upper face finished with sand. This membrane is used in protected system that require root resistance. It is supplied in rolls 4 mm thick, 1 m wide and 10 m long.
- **Soprafix Base 630** - a SBS modified bitumen sheet waterproofing membrane with a composite reinforcement. The upper face is covered with a thermofusible plastic film and the lower face is sanded. Soprafix Base 630 is provided with Duo Selvege technology which allows the immediate sealing of the membrane alongside laps. It is supplied as a roll, 2.5 mm thick, 1 m wide and 10 m long.
- **Sopralast TV Copper** - a SBS modified bitumen sheet waterproofing membrane used as a cap sheet in a double layer system. The lower face has a thermofusible film which is torched off during application and an upper face finished with copper foil. It is supplied as a roll, copper in colour, 3 mm thick, 1 m wide and 8 m long.
- **Sopraply Stick Duo** - a SBS modified bitumen, self-adhered waterproofing membrane used as a base sheet in a double layer system. The self-adhesive lower face is covered with a silicone release film and the upper face is sanded. It has a composite reinforcement of polyester and glass fibre. It is supplied as a roll, 3 mm thick, 1 m wide and 10 m long.



BRANZ Appraised
Appraisal No. 819 [2019]

BRANZ Appraisal
Appraisal No. 819 [2019]
23 May 2019

SOPREMA ROOFING MEMBRANE
SYSTEMS

- **Colvent Base 840** - a partially-bonded, SBS modified bitumen, self-adhered waterproofing membrane used as a base sheet in a double layer system. The lower face, made of discontinuous self-adhesive strips, is covered with a silicone release film and the upper face is sanded. It has a glass matt reinforcement. It is supplied as a roll, 2.5 mm thick, 1 m wide and 12 m long.
- **Sopraply Stick Traffic Cap** - a SBS modified bitumen, self-adhered waterproofing membrane used as a cap sheet in a double layer system. The self-adhesive lower face is covered with a split-back silicone release film and the upper face is protected with coloured granules. It has a composite reinforcement of polyester and glass fibre. It is supplied as a roll, 4 mm thick, 1 m wide and 10 m long.
- **Aerisol Flam Vent Sheet** - a perforated bituminous separating membrane designed for partial bonding of torch-applied waterproofing membranes. It is supplied as a roll, 1.5 mm thick, 1 m wide and 40 m long.
- **Sopradere Quick primer** - a solvent-based, bituminous varnish used to prime dry and porous surfaces. It is supplied in 25 L pails.
- **Soprema Alsan Flashing** - a waterproofing, one-component polyurethane/bitumen resin. It is dedicated to roof flashings and details where it is difficult to apply waterproofing membranes. It is supplied in 19 L pails.
- **Sopraboard** - a support panel composed of asphalt-saturated glass mat reinforcement covering a mineral-fortified asphaltic core. It is used as a support panel on low-slope roofing. It is supplied as a panel in different thicknesses and dimensions.
- **2-1 Soprasmart Board** - a support panel composed of an SBS modified bitumen waterproofing membrane with non-woven polyester reinforcement and an upper face covered with a thermofusible film. This membrane is factory laminated to the Sopraboard. It is used as a base sheet in a double layer system. It is supplied as a panel in different thicknesses, 0.914 m wide and 2.44 m long.
- **Duotack** - a low-rise, two-component polyurethane adhesive used to adhere layers of insulation boards of polystyrene, of polyurethane, of approved mineral fibre (stone wool) and for cover boards such as asphaltic, wood fibre, perlite, gypsum or cement boards. It is supplied in 18.9 L kits.
- **Elastocol Stick/Equus Peel & Stick primer** - a blend of SBS synthetic rubbers, volatile solvents and adhesive enhancing resins used to adhere self-adhesive membranes at temperatures above 10°C.
- **Soprema Alsan Mastic 2200** - a bituminous, adhesive/sealant used for cold bonding and sealing when necessary. It is a black paste, supplied in 310 ml cartridges.
- **Equus Fix Plus pedestals** - adjustable pedestal protection system.
- **Permabase Dek Roof Cover Board** - a lightweight cement roof cover board for modified bitumen waterproofing membranes. It is supplied as a 9 mm thick, 2.4 m long and 1.2 m wide 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 certified applicator. 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 Sopralene Membrane System - Details on Concrete, May 2022.
 - Equus Sopralene Membrane System - Details on Plywood, May 2022.
 - Equus Soprasun Membrane System - Details on Concrete, May 2022.
 - Equus Soprasun Membrane System - Details on Plywood, May 2022.
- 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.



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23 May 2019

SOPREMA ROOFING MEMBRANE
SYSTEMS

Design Information

General

- 7.1 Soprema Roofing Membrane Systems are for use on roofs, gutters and decks 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 Roofing Membrane Systems.
- 7.2 The effective control of internal moisture must be considered at the design stage due to the impermeability of the membrane. Refer to the BRANZ Good Practice Guide: Membrane Roofing.
- 7.3 There are a number of different base sheets and cap sheets contained within the Soprema Roofing Membrane Systems. Generally the cap sheets have a slate or metal foil finish for when ultraviolet (UV) protection is required. All the systems require a pedestal protection system for when anything other than irregular maintenance foot traffic is expected. When the deck membrane system is two-layers of plain membrane, this system requires UV protection as well as the pedestal protection system. Equus Industries Ltd should be consulted for the best system to meet the design requirements.

Substrates

Plywood

- 8.1 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, or to a specific design.

Concrete

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

Existing Construction

- 8.3 A thorough inspection of the substrate must be made to ensure it is in a fit condition and does not contain any materials that will adversely affect the performance of the membrane.
- 8.4 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.

Durability

Serviceable Life

- 9.1 Soprema Roofing Membrane Systems are expected to have a serviceable life of at least 15 years, provided they are designed, used, installed and maintained in accordance with this Appraisal and the Technical Literature.

Chemical Resistance

- 9.2 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

- 10.1 Soprema Roofing Membrane Systems must be regularly (at least annually) checked for damage, rubbish, debris or coating breakdown. Special care must be taken when inspecting the membrane roof and deck systems to ensure the continuing prevention of moisture ingress, and repairs must be undertaken where required. Damage, such as small punctures and tears must be repaired and coatings reapplied as recommended by Equus Industries Ltd.
- 10.2 Drainage outlets must be maintained to operate effectively.



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SOPREMA ROOFING MEMBRANE
SYSTEMS

Prevention of Fire Occurring

- 11.1 Separation or protection must be provided to Soprema Roofing 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 NZBC Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

External Moisture

- 12.1 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.
- 12.2 When installed in accordance with this Appraisal and the Technical Literature, Soprema Roofing 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.
- 12.3 Roof and deck falls must be built into the substrate.
- 12.4 The minimum fall to roofs is 1:30, decks 1:40, concrete substrates 1:60 and gutters 1:100. 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.]*
- 12.5 Allowance for deflection and settlement of the substrate must be made in the design of the roof to ensure falls are maintained and no ponding of water can occur.
- 12.6 Soprema Roofing 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.
- 12.7 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 does not drain to an external gutter or spouting.
- 12.8 Penetrations and upstands of the membrane must be raised above the level of any possible flooding caused by the blockage of roof drainage.
- 12.9 The design of details not covered by the Technical Literature is subject to specific weathertightness design and is outside the scope of this Appraisal.

Water Supplies

- 13.1 Soprema Roofing Membrane Systems have not been assessed for roofs used for the collection of potable water.

Installation Information

Installation Skill Level Requirement

- 14.1 Installation of the membranes must be completed by an Equus Industries Ltd certified applicator.
- 14.2 Installation of substrates must be carried out in accordance with the Equus Industries Ltd Technical Literature and this Appraisal by, or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant Licence Class.

Preparation of Substrates

- 15.1 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.
- 15.2 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.



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SOPREMA ROOFING MEMBRANE
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- 15.3 The moisture content of the plywood and timber substructure must be a maximum of 20%. The plywood sheet surface 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.
- 15.4 All substrates must be primed with a suitable Soprema primer and installed following the manufacturer's Technical Literature.

Membrane Installation

- 16.1 The membranes must be installed in accordance with the Technical Literature.
- 16.2 All roof/deck and wall junctions must have a 20 x 20 mm fillet installed at the junction. Plywood substrates must use a wooden fillet and concrete substrate junctions a cement mortar fillet installed. All external edges must be chamfered to a 5 mm radius to remove sharp edges. Alternatively, pre-formed bitumen fillets of 25 x 25 mm can be used.
- 16.3 The membranes are installed from the lowest point and each layer is installed across the roof fall allowing an 80 mm side overlap and a 150 mm end overlap. The cap sheet layer must be offset against the base sheet layer.

Inspections

- 17.1 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 Technical Literature instructions.

Health and Safety

- 18.1 Safe use and handling procedures for Soprema Roofing Membrane Systems is provided in the Technical Literature. The products must be used in conjunction with the relevant Material Safety Data Sheets for each membrane.

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 Roofing Membrane Systems: Tensile strength, elongation, tear strength, dimensional stability, low temperature flexibility of heat aged [180 days at 70°C] and UV aged [2,000 hours xenon arc], heat resistance after heat aged [180 days at 70°C], unrolling at low temperatures, sliding resistance, watertightness, static and dynamic indentation, fatigue cycling of heat aged specimens [28 days at 80°C], peel resistance of heat aged specimens [28 days at 70°C], tests on joints including: air pressure after heat ageing [28 days at 80°C] and water soak [7 days at 60°C], tensile strength of joints after heat ageing [28 days at 80°C] and water soak [7 days at 60°C]
- 19.2 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.



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

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.



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23 May 2019

SOPREMA ROOFING MEMBRANE
SYSTEMS



In the opinion of BRANZ, **Soprema Roofing 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 New Zealand Ltd** 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 New Zealand Ltd**
 - 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 New Zealand Ltd**
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 New Zealand Ltd** or any third party.

For BRANZ



Chelydra Percy
Chief Executive

Date of Issue:
23 May 2019

SOPRASUN PLUS 4.5KG MINERAL

Description:

SOPRASUN PLUS 4.5KG MINERAL is a plastomeric modified bitumen waterproofing membrane (APP), manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives the compound excellent technical characteristics.

The composite reinforcement, made of non-woven polyester in combination with fibreglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance.

The upper surface is coated with coloured chips and selvedge edge is slate free at one side.

The lower surface is coated with a thermofusible polyolefin film.

Application - Use:

- Top layer in multilayer roofing and waterproofing systems
- Single layer roofing and waterproofing membrane
- Can be used in both exposed and protected systems
- To be fully heat welded with propane torch or Mini Macaden machine

Application Procedure:

SUBSTRATE

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Substrate must have minimum 1% fall to ensure that water drains to drainage outlets.
- Do not install heat welded membranes directly onto combustible substrate.
- Concrete substrate must be fully cured before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 6 (As per International Concrete Repair Institute).
- Adhesion test is recommended prior to installation of membrane.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

PRIMER

- When installed as top layer over base sheet membrane, primer is not required.
- When installed over concrete or metal surface prime with Antirock primer at the rate specified in TDS.



HEAT WELDING

- Unroll membrane sheets onto the roof surface and allow time to relax prior to heat welding.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps.
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 metre apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until plastic burn-off film melts away sufficiently for full adhesion to the substrate, and full adhesion between plies.
- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling the sheet.
- While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.
- At the 150mm end-laps ensure a fully adhered watertight seal. Melt the plastic burn-off film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- All penetrations and upturn details should be waterproof as per SOPREMA installation manuals and detail drawings.
- If in doubt, contact your local Equus Representative.

Packaging:

Composition	Testing Method	SOPRASUN PLUS 4 MINERAL
Thickness	EN 1849-1 ASTM 5147	3.6 ± 10% (mineral area) 2.6 ± 10% (overlap area)
Dimension	-	10 x 1 m
Top Face	-	Slates Grey
Underface	-	Torch-off film
Rolls per pallet	-	20
Packing type	-	Pallet + shrink film

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.

Properties:

	Unit	SOPRASUN PLUS 4 MINERAL	Standards
Weight of 1 square metre	Kg/m ²	4.5 ± 5%	EN 1849-1 ASTM 5147
Tensile strength, MD/CD	N\50 mm	800/550 ± 20%	EN 12311-1 ASTM 5147
Elongation, MD/CD	%	30/35 ± 15% EN 45/45 ± 15% ASTM	EN 12311-1 ASTM 5147
Nail tear strength	N	275/275 ± 20%	EN 12310-1
Flexibility	°C	-5	EN 1109 ASTM 5147
Heat resistance	°C	120	EN 1110 ASTM 5147
Ring & Ball	°C	Min. 150	EN 12691-A
Resistance to static loading	Kg	15	EN 12730 Method A
Dynamic puncturing (impact resistance)	mm	600	EN 12691 Method B
Dimension stability	%	± 0.5	EN 1107-1
Water impermeability watertightness at low pressure	-	Pass at 60kpa	EN 1928 Method A
Water impermeability watertightness at high pressure	-	Pass at 200kpa	EN 1928 Method B
Water absorption	%	< 1	ASTM D5147
Vapour permeability	μ	60,000	EN 1931
Thermal ageing in air (in oven 28 days at 70°C)	-	Passed	UNI 8202 / 26
Ageing due to atmospheric agents (UV test weathering)	-	Passed	ASTM G 53 UNI 8202 / 29
Reaction to fire	Class	E	EN 13501



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August 2023

SOPRASUN PLUS 3

Description:

SOPRASUN PLUS 3 is a plastomeric modified bitumen waterproofing membrane (APP), manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives the compound excellent technical characteristics.

The composite reinforcement, made of non-woven polyester in combination with fibreglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance.

The upper surface is sanded. The lower surface is coated with a thermofusible polyolefin film.

Application - Use:

- Base sheet in multi-layer roofing and waterproofing systems
- Top layer in protected systems (no UV exposure)
- Single layer roofing and waterproofing membrane (no UV exposure)
- Can be fully heat welded with propane torch, Mini Macaden machine, or mechanically fixed (only when used as a base sheet in a multi-layer roofing assemblies)

Application Procedure:

SUBSTRATE

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Substrate must have minimum 1% fall to ensure that water drains to drainage outlets.
- Do not install heat welded membranes directly onto combustible substrate.
- Concrete substrate must be fully cured before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 6 (As per International Concrete Repair Institute).
- Adhesion test is recommended prior to installation of membrane.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

PRIMER

- When installed over concrete or metal surface prime with Antirock primer at the rate specified in TDS.

CodeMark 
CMNZ70151



BRANZ Appraised
Appraisal No.819 [2019]

HEAT WELDING

- Unroll membrane sheets onto the roof surface and allow time to relax prior to heat welding.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps.
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 metre apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until plastic burn-off film melts away sufficiently for full adhesion to the substrate, and full adhesion between plies.
- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling the sheet.
- While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.
- At the 150mm end-laps ensure a fully adhered watertight seal. Melt the plastic burn-off film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- All penetrations and upturn details should be waterproofed as per SOPREMA installation manuals and detail drawings.
- If in doubt, contact your local Equus Representative.

Packaging:

Composition	Testing Method	SOPRASUN PLUS 3
Thickness	EN 1849-1 ASTM 5147	3 ± 5% mm
Dimension	-	10 x 1 m
Top Face	-	Sand
Underface	-	Torch-off film
Rolls per pallet	-	25
Packing type	-	Pallet + shrink film

Properties:

	Unit	SOPRASUN PLUS 3	Standards
Weight of 1 square metre	Kg/m ²	4 ± 5%	EN 1849-1 ASTM 5147
Tensile strength, MD/CD	N/50 mm	800/550 ± 20%	EN 12311-1 ASTM 5147
Elongation, MD/CD	%	30/35 ± 15% EN 45/45 ± 15% ASTM	EN 12311-1 ASTM 5147
Nail tear strength	N	275/275 ± 20%	EN 12310-1
Flexibility	°C	-5	EN 1109 ASTM 5147
Heat resistance	°C	120	EN 1110 ASTM 5147
Ring & Ball	°C	Min. 150	EN 12691-A
Resistance to static loading	Kg	15	EN 12730 Method A
Dynamic puncturing (impact resistance)	mm	600	EN 12691 Method B
Dimension stability	%	± 0.5	EN 1107-1
Water impermeability watertightness at low pressure	-	Pass at 60kpa	EN 1928 Method A
Water impermeability watertightness at high pressure	-	Pass at 200kpa	EN 1928 Method B
Water absorption	%	< 1	ASTM D5147
Vapour permeability	μ	60,000	EN 1931
Thermal ageing in air (in oven 28 days at 70°C)	-	Passed	UNI 8202 / 26
Ageing due to atmospheric agents (UV test weathering)	-	Passed	ASTM G 53 UNI 8202 / 29
Reaction to fire	Class	E	EN 13501



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August 2023

SOPRAGUM GARDEN PLUS 4

APP-modified bitumen waterproofing membrane

October 2023

DESCRIPTION:

SOPRAGUM GARDEN PLUS 4 is an APP-modified bitumen waterproofing membrane integrated with anti-root additives designed for green roofing, planter boxes and below grade applications.

SOPRAGUM GARDEN PLUS 4 is reinforced with a non-woven polyester combined with fibreglass. The composite reinforcement conveys good mechanical characteristics, excellent dimensional stability, and elastic performance.

SOPRAGUM GARDEN PLUS 4 top surface is coated with anti-adhesive amorphous sand; bottom surface is covered with a thermofusible plastic film.

FIELD OF APPLICATION:

SOPRAGUM GARDEN PLUS 4 is suitable as a top layer for multi-layer waterproofing assemblies in protected systems where root resistance is required. It can be used in vertical and horizontal waterproofing for the following general applications:

- Green Roofs
- Plaza Decks
- Planter Boxes
- Retaining Walls

**APPLICATION METHOD:**

SOPRAGUM GARDEN PLUS 4 can be fully heat-welded using a propane torch or MINI MACADEN.

INSTALLATION PROCEDURE:**SUBSTRATE**

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets.
- Do not install heat welded membranes directly onto combustible substrate.
- Concrete substrate must be fully cure before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 6 as per International Concrete Repair Institute.
- Adhesion test is recommended prior to installation of membrane.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

PRIMING

- When installed as top layer over base sheet membrane, a primer is not required.

HEAT WELDING

- Unroll membrane sheets onto the roof surface.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps.
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 m apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until the thermofusible film melts sufficiently for full adhesion to the substrate, and full adhesion between plies.



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SOPRAGUM GARDEN PLUS 4

APP-modified bitumen waterproofing membrane

October 2023

HEAT WELDING (Cont.)

- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling sheet. While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.
- At the 150 mm end-laps ensure a fully adhered watertight seal. Melt the thermofusible film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- All penetrations and upturn details should be waterproofed as per SOPREMA Installation Guides and detail drawings.

PACKAGING:

SPECIFICATIONS	SOPRAGUM GARDEN PLUS 4
Thickness	4 mm
Roll dimensions	10 m x 1 m
Roll weight	45 kg
Rolls per pallet	20

PROPERTIES:

Properties	Test Method	SOPRAGUM GARDEN PLUS 4
Abrasion resistance*	AS 1580.403.2	PASS
Bond strength to concrete	ASTM C794	27.4 N/2.5 cm
Cyclic movement	CSIRO Moving joint test (B)	PASS
Dimensional stability	ASTM D5147	MD: -0.10% : CD -0.19%
Elongation at break	ASTM 4654.1	37%
Field seam strength	ASTM D1876	1.2 (±162) N/m
Heat aging	AS 4654.1 (AS 1145.3)	PASS: no visual change (All values are nominal)
Ultraviolet resistance*	AS 4654.1 (AS 1145.3)	PASS: no visual change
Tensile strength	ASTM D5147	740 N/5CM
Durability	AS 4654.1	PASS
Watertightness	EN 1928-B:2000	> 200 kPa
Water vapour transmission rate	AS 4654.1	0 perm**

*Applicable only to self-protected ** The results values are below the variation of the equipment. We consider that the sample have no water vapour transmission

STORAGE AND HANDLING:

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



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SOPRAGUM GARDEN PLUS 4

APP-modified bitumen waterproofing membrane

October 2023

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	Italy
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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ALSAN MASTIC 2200

Description:

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

Properties:

Composition:	bitumen and synthetic rubber
Temperature resistance:	-20/+80 °C
Application temperature:	+5/+35 °C
Consumption:	15-20 m/cartridge

Packing & Storage:

Cartridge 310 ml
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



BRANZ Appraised
Appraisal No.520 [2019]



BRANZ Appraised
Appraisal No.685 [2021]

Special Indications:

Hygiene, Health and Environment

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

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June 2023

SOPRADERE QUICK

Cold applied fast drying primer

Description:

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.

Properties:

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

Packing & Storage:

Cans of 5 and 25 l.

12 months in original unopened packaging. Store frost-free and protected from sunlight.

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 tools:

- wet product - white spirit

Certifications:



Special Indications:

Hygiene, Health and Environment

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

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February 2022

DUO C-PROFILE

Description:

The **C-Profile** is a pre-manufactured profile that terminates the waterproofing membrane at the wall in a professional and watertight, wind-peel resistant manner. The **C-Profile** is used at concrete or wooden walls and curbs.

Characteristics:

Material:	Extruded aluminium profile (Al Mg Si 0.5 F22 quality)
Tensile strength:	215 N/mm ²
Yield point:	160 N/mm ²
Elongation:	10%
Hardness:	70 brinell
Length:	2500 mm
Width:	50 mm
Colour:	Metallic

Characteristics tested according to German DIN 1748 standard.

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.



Installation:

- The waterproofing is installed according to manufacturers details.
- The **C-Profile** is fastened at the edge of the waterproofing membrane into the wall.
- The **C-Profile** covers the membrane with 2/3 of its total width of 50mm. The rest of the profile protrudes above the membrane.
- The space created at the top of the **C-Profile** is filled with a sealant compatible to the wall's material, bitumen and aluminium. **SOPREMA** recommends Alsan Mastic 2200 sealant.



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July 2021

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EASY FLASHING



Description:

EASY FLASHING is a thixotropic waterproofing coating, formulated with bitumen in water emulsion, selected elastomeric resins and special additives, multipurpose with high adhesiveness.

Field of Application:

EASY FLASHING is used:

- As a waterproofing liquid membrane when the application of polymer-bitumen membranes should be difficult or when the use of the flame should be forbidden. It can be applied both vertically and horizontally.
- Suitable for waterproofing of foundation walls and foundations.
- Laying of insulation panels.
- For quick local repairs.
- Restores the waterproofing effect on balconies and terraces with no need to destroy the old pavement.
- Prepare a waterproofing and gripping base for the subsequent bonding of tiles with the appropriate cement-based adhesives (category C according to EN 12004).
- If diluted at 50%, the product can be used as a dust-proof primer.

Excellent adhesion on the following surfaces:

- Bituminous membranes with sand or self protected with slates
- Concrete
- Different types of metal surfaces (pipelines, eaves, IBCs)
- Fibrocement
- Plasterboard
- Wood
- Ceramic pavements
- Glass

Advantages:

- Excellent elasticity
- Waterproofs and protects from atmospheric agents and from UV rays
- Resistance against corrosive action of many acids
- Encourages the cold laying
- Perfect grip on different materials
- Compatible with cementitious adhesives
- Long-lasting product

- Odourless and non-flammable product
- Non-toxic, solvent free
- Does not crack at low temperatures and does not pour at high temperatures.

Standards & Certifications:

EASY FLASHING is CE marked in accordance with:

- EN 1504-2:2004 - Surface protection system for concrete.
- EN 14891:2012 - Dispersion liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesive.

Method of Use:

Operating conditions

It is recommended to apply the product with an ambient temperature not lower than +5 °C and when there are no climatic conditions of fog, rain and frost, avoiding extreme situations of cold and heat.

Surface preparation

Before applying the product, make sure that the non-coherent parts, or non-adherent parts, paints, rust, dust, disarming oils are removed and carefully clean surfaces that need to be solid and dry.

The efficiency of the water outflow must be ascertained (slopes, positioning and size of the drains).

This product can also be applied on wet surfaces, but it is necessary there is no water stagnation.

Preparation

Mix the product thoroughly until the mixture is fully homogenous before using.

Application

EASY FLASHING can be applied by roller, brush, spray, spatula or notched squeegee.

It is generally applied in two coats. To facilitate the application on large surfaces it is advisable to dilute up to a maximum of 10% water. Apply the second coat fresh on fresh if the first has been reinforced, otherwise after complete drying of the first, after 24-48 hours.

On surfaces larger than 10 sqm or stressed supports, we recommend reinforcing EASY FLASHING with the special Alsan Voile-P fabric embedded in the first still fresh coat.

Cleaning tools

After use, clean the tools with water and, if the product has dried, it is advisable to remove it with hot water or the most common synthetic thinners.

Consumption:

- Between 0.6-0.9 kg/sqm per coat, the consumption of the product varies according to the substrate and thickness desired. To obtain a dried film of 1mm, the quantity of product used will be about 1.5 kg/sqm. Approx. 2kg/sqm if the appropriate Alsan Voile-P reinforcement fabric is used.
- Between 400-700 g/sqm if used as an adhesive for spot bonding of insulation panels.

Additional Information:

- It is recommended to apply the product with an ambient temperature no lower than +5 °C and when there are no weather conditions of fog, rain and frost, avoiding in any case extreme situations of cold and heat and high humidity.
- Particular attention should be paid to the application of the product on some new bituminous surfaces so as to avoid the risk that hydrocarbons still present in the support may compromise the correct adhesion of the product.
- In the realisation of waterproof protections executed with EASY FLASHING, or in any case in applications between materials of different nature, structural joints, or in the presence of important cracks it is recommended to use the Voile-P reinforcement impregnating it completely in the first coat still fresh.
- Do not exceed the quantity and drying times recommended for each coat in order to guarantee the correct drying of the product in all its thickness.

- Temperatures over 35 °C could accelerate the drying of the product, compromising its workability.
- In the case of waterproofing walls against the ground with EASY FLASHING, suitable mechanical protection must be provided mainly for backfill operations.
- EASY FLASHING can be walked on occasionally in the case of occasional maintenance.
- To improve the durability of EASY FLASHING it is recommended painting with suitable protective paints.
- Do not use EASY FLASHING on supports subject to counter-thrust or strong water pressure.

For more information, ask for the Safety Data Sheet.

General Warnings:

The information provided in this technical data sheet is valid only for the product supplied by Soprema srl. Please note that the mentioned data might differ from those valid in other countries. The above data, in particular the advice on the processing and method of use of our products, are the result of our knowledge and experience considering normal application cases. The above information regarding the application of the products is provided according to science and consciousness. However, it is up to the applicator to determine the suitability of the product based on the objective requirements and conditions of the job site. The product is subject to revision if necessary for technological progress or product improvement.

Packaging & Storage:

EASY FLASHING	
Packaging	- 310 ml plastic cartridges in boxes of 24 pieces - 5, 20 kg metal cans
Colour	Black (when dried)
Storage	Storage up to 12 months from the production date in the original packaging, in a cool environment, protected from frost and direct sunlight. EASY FLASHING fears frost, do not expose the packages to a temperature below +5 °C; once frozen the product is not recoverable.

Technical Characteristics:

Characteristic	Test Method	Performance
Physical form	-	Pasta Tixotropica
Dry residue at 130 °C	EN ISO 3251	53÷59%
Viscosity Brookfield (at 20 °C, Impeller n. 6; 10 rpm)	EN ISO 3219	70.000 cP (± 14.000)
Specific weight at 20 °C	EN ISO 2811-1	1.21 kg/l (±0.04)
pH (at 20 °C)	-	8.3÷9.0
Flexibility at low temperatures	EN 15813	-30 °C
Dimensional stability at high temperatures	EN 15818	+150 °C
External drying time	-	4 hour
Drying time for finishing covering	-	24÷48 hours*

* Values recorded at a temperature of 23 °C and 50% humidity. The data expressed may vary depending on thickness of the product applied and the specific conditions of the site; temperature, humidity, ventilation, absorbency of the bottom.

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Technical Characteristics:

Performance Characteristic (UNI EN 1504-2 - C Coverings - Principles: PI MC IR)	Test Method	Performance
Permeability to CO ₂	EN 1062-6	S _D >50 m
Water vapour permeability	EN ISO 7783	Class I (S _D <5 m)
Liquid water permeability	EN 1062-3	W < 0.1 kg/sqm x h ^{0.5}
Tensile bond strength (by pull off)	EN 1542	≥1 N/mm ²

* Values recorded at a temperature of 23 °C and 50% humidity. The data expressed may vary depending on thickness of the product applied and the specific conditions of the site; temperature, humidity, ventilation, absorbency of the bottom.

Performance EN 14891 Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesive	Requirements EN 14891	Product Performance
Initial tensile adhesion	>0.5 N/mm ²	Passed
Tensile adhesion after water contact	>0.5 N/mm ²	Passed
Tensile adhesion after heat aging	>0.5 N/mm ²	Passed
Tensile adhesion after freeze/thaw cycles	>0.5 N/mm ²	Passed
Tensile adhesion after contact with lime water	>0.5 N/mm ²	Passed
Water impermeability	No penetration	Waterproof
Crack Bridging Ability (at 20 °C)	>0.75 mm	Passed
CLASSIFICATION ACCORDING TO EN 14891	Class DM 02	Waterproof product applied in dispersed liquid with improved crack bridging capacity at low temperature (-20 °C)

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June 2023

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To see or download full size details click here

① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Roof Bulk Up Detail
NUMBER :	SSCRP-D0a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS
 E-mail: sales@equus.co.nz
 Web: www.equus.co.nz

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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS SOPRASUN base sheet, dressed to Parapet as separate piece
 ⑥ EQUUS SOPRASUN cap sheet, dressed to Parapet as separate piece
 ⑦ EQUUS bitumen fillet or approved alternative
 ⑧ Cap Flashing by others

5' min. slope

3.75 mm

3.75 mm

≥ 150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Parapet with cap flashing
NUMBER :	SSCRP-D1a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ Aleroof Dome Clamp Ring Drain

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Aleroof dome clamp ring drain
NUMBER :	SSCRP-D2a
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ Aquaknight HFlow roof drain

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Aquaknight HFlow roof drain
NUMBER :	SSCRP-D2b
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS bitumen fillet or approved alternative
 ⑥ EQUUS SOPRASUN Base Sheet, as separate piece connected to Drainage
 ⑦ EQUUS SOPRASUN Cap Sheet, as separate piece connected to Drainage
 ⑧ Aleroof Dome Clamp Ring Drain

≥ 150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Internal Gutter and parapet - Aleroof Drain
NUMBER :	SSCRP-D3a
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS bitumen fillet or approved alternative
 ⑥ EQUUS SOPRASUN Base Sheet, dressed to gutter as separate piece
 ⑦ EQUUS SOPRASUN Cap Sheet, as separate piece connected to Drainage
 ⑧ Aquaknight HFlow roof drain

≥ 150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Internal Gutter and parapet - Aquaknight HFlow roof drain
NUMBER :	SSCRP-D3b
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS SOPRASUN cap sheet as separate piece
 ⑥ EQUUS bitumen fillet or approved alternative

≥ 150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Internal Center Gutter
NUMBER :	SSCRP-D3c
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
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① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS SOPRASUN cap sheet as separate piece over Plywood Plinth
 ⑥ Plywood Plinth
 ⑦ EQUUS Aisan Mastic 2200 bitumen sealant
 ⑧ EQUUS Aisan Flashing (Quadro) or Equus Matasyrl
 ⑨ SHS penetration
 Note: check compatibility with pipe material

150 mm

150 mm

150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Pipe Penetration
NUMBER :	SSCRP-D4a
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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Shrink Sleeve	
Internal diameter	Sleeve shrinkable to
18 mm	4 mm
22 mm	12 mm
42 mm	22 mm
56 mm	42 mm
66 mm	55 mm
88 mm	66 mm
110 mm	88 mm

① Plywood Deck
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS SOPRASUN cap sheet, as separate piece over Shrink Sleeve
 ⑥ Plywood Plinth
 ⑦ Bitumen Flange attached to Shrink Sleeve Body
 ⑧ EQUUS Aisan Mastic 2200 bitumen sealant
 ⑨ Shrink Sleeve Body internal diameter 55 mm
 ⑩ Shrink Sleeve

≥ 150 mm

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Pipe Penetration with Shrink Sleeve
NUMBER :	SSCRP-D4b
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
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STEP 2: Fixing of the Equipment

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- EQUUS SOPRASUN cap sheet as separate piece over Batten
- Roof Equipment
- EPDM Washer under Screwhead
- Timber Roof Batten

STEP 1: Fixing of the batten

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Roof Equipment Support Batten
NUMBER :	SSCRP-D5a
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

STEP 2: Fixing of the Equipment

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- EQUUS SOPRASUN cap sheet as separate piece over Batten
- Roof Equipment Bimble or approved alternative
- Roof Equipment Bracket
- EPDM Washer
- Timber Roof Batten

STEP 1: Fixing of the batten

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Roof Equipment Support Batten (Optional)
NUMBER :	SSCRP-D5b
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

STEP 2: Fixing of the Equipment

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- EQUUS SOPRASUN cap sheet as separate piece
- Extra triangular piece of EQUUS SOPRASUN cap sheet to divert water
- EQUUS bitumen fillet or approved alternative
- Skylight Jowery

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Skylight/Roof hatch with Extra triangular piece of cap sheet to divert water
NUMBER :	SSCRP-D6a
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- EQUUS SOPRASUN cap sheet as separate piece
- Sloped drainage channel to divert water around skylight
- EQUUS bitumen fillet or approved alternative
- Skylight Jowery

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Skylight/Roof hatch with diverter
NUMBER :	SSCRP-D6b
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

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- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- 18 mm Plywood plinth under Anchor points
- Fall Arrest Anchor
- Toggle fixing
- EQUUS SOPRASUN Cap Sheet as separate piece over Anchor point

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Fall restraint
NUMBER :	SSCRP-D7a
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- Aluminum Flashing treated with EQUUS 'Spray & Go' Primer

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Connection to external gutter
NUMBER :	SSCRP-D8a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- Cavity Batten
- EQUUS PE Scupper Drain
- EQUUS SOPRASUN Capsheet, as separate piece
- EQUUS universal Leak Catcher
- EQUUS SOPRASUN Capsheet, as separate piece over Roof Edge Profile
- EQUUS Roof Edge Profile
- Building wrap boot seal by others
- Cladding penetration/edge cladding manufactures details

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Scupper Drain Detail
NUMBER :	SSCRP-D9a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- Plywood Deck
- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- Cavity Batten
- EQUUS bitumen fillet or approved alternative
- Aqualight S/S Scupper (E2) 200x75 (Code: 2100.104SS)
- EQUUS universal Leak Catcher
- EQUUS SOPRASUN Capsheet, as separate piece over Roof Edge Profile
- EQUUS Roof Edge Profile
- Building wrap boot seal by others
- Cladding penetration/edge cladding manufactures details

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Aqualight S/S Scupper Detail
NUMBER :	SSCRP-D9b
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- EQUUS SOPRADERE QUICK primer
- EQUUS SOPRASUN PLUS 3 base sheet
- EQUUS SOPRASUN PLUS MINERAL cap sheet
- EQUUS SOPRASUN Capsheet as separate piece over Roof edge profile
- EQUUS Roof edge profile
- Wall cladding and building wrap (by others)

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Upstand detail with roof edge profile
NUMBER :	SSCRP-D10a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN Capsheet as separate piece over Plywood Plinth
- 6 Plywood Plinth
- 7 EQUUS Isulmen fillet or approved alternative
- 8 EQUUS Alkan Mastic 2200 blumen sealant
- 9 Ventilation Pipe

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Ventilation Pipe with plinth Detail
NUMBER :	SSCRP-D11a
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

STEP 1: Fixing of the Timber Plinth

STEP 2: Fixing of the Monkey Toe Roof Profile

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 Timber Plinth
- 6 Monkey Toe Roof Profile Fixing with Neoprene Washer
- 7 EQUUS SOPRASUN Capsheet, as separate piece over Timber Plinth

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Monkey Toe Walkway Fixing Detail
NUMBER :	SSCRP-D12a
SCALE :	1:4
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS Alkan Flashing (Quadro) or Equus Matacryl
- 6 Electrical Conduit with SBS Flange

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Electrical Conduit
NUMBER :	SSCRP-D13a
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 Timber Plinth, glued to Capsheet
- 6 Clip Ring Fixing with Neoprene Washer into Timber Plinth, but not through Capsheet underneath
- 7 Metal Framing Fixing with Neoprene Washer into Timber Plinth, but not through Capsheet underneath
- 8 EQUUS SOPRASUN Capsheet, as separate piece over Timber Plinth

A. Clip Ring

B. Metal Framing

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Cable Tray Support Fixing Detail
NUMBER :	SSCRP-D14a
SCALE :	1:3
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Gutter
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN Cap Sheet as separate piece under window

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Window Gutter Detail
NUMBER :	SSCRP-D15a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Aluminum Angle Profile 25 x 25 mm
- 2 Primed Plywood Roof Deck with EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN base sheet over Kick Out Flashing
- 6 EQUUS SOPRASUN Cap sheet over Kick Out Flashing
- 7 Kick Out Flashing between double layer systems

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Kick Out Flashing Detail
NUMBER :	SSCRP-D16a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN Capsheet as separate piece over Roof edge profile
- 6 EQUUS SOPREMA Roof edge profile
- 7 Wall cladding and building wrap (by others)

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Verge Detail Without Upstand
NUMBER :	SSCRP-D17a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN Capsheet as separate piece over Roof edge profile
- 6 S/S Clamp Ring
- 7 Metal Pipe Penetration with gooseneck and installation Flange

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Pipe Penetration Solar PV Power Conduit
NUMBER :	SSCRP-D18a
SCALE :	NTS
DRAWN BY :	NKT
DATE :	15-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS SOPRASUN cap sheet, Cover Strip

PROJECT :	Cold Roof on Plywood Standard Detail
TITLE :	Ridge Waterproofing
NUMBER :	SSCRP-D19a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	28-Jun-2022
REVISED :	

EQUUS AUTHORIZED DISTRIBUTOR **SOPREMA**

- 1 Plywood Deck
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 SOPREMA SOPRASUN cap sheet as separate piece over plywood plinth
- 6 Roof edge flashing (by others)

PROJECT:	Cold Roof on Plywood Standard Detail
TITLE:	Roof Edge Detail
NUMBER:	SSCRP-D2a
SCALE:	1:2
DRAWN BY:	NKT
DATE:	28-Jun-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Roof Built Up Detail
NUMBER:	SSCRC-Da
SCALE:	1:2
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with cap flashing Detail
NUMBER:	SSCRC-D1a
SCALE:	1:2
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with roof edge profile
NUMBER:	SSCRC-D1b
SCALE:	1:2
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with C-Profile termination bar
NUMBER:	SSCRC-D1c
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with angle termination
NUMBER:	SSCRC-D1d
SCALE:	1:2
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with over flashing termination
NUMBER:	SSCRC-D1e
SCALE:	1:2
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Parapet with C-Profile termination bar and roof capping
NUMBER:	SSCRC-D1f
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab / Screed laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet, dressed to Parapet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS cap sheet, dressed to Parapet as separate piece
- 7 EQUUS bitumen fillet or approved alternative

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Brick Wall termination
NUMBER:	SSCRC-D1g
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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① Concrete Roof Slab / Scribed laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS base sheet, dressed to Parapet as separate piece
 ⑤ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑥ EQUUS cap sheet, dressed to Parapet as separate piece
 ⑦ EQUUS bitumen fillet or approved alternative
 ⑧ EQUUS Matarcyl C-profile
 ⑨ EQUUS Alsan Mastic 2200 bitumen sealant
 ⑩ Flashing (by others)
 ⑪ Metal Roof

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Timber Uplum Termination
 NUMBER: SSCRC-D1h SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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 AUTHORIZED DISTRIBUTOR **SOPREMA**

① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ Alproof Dome Clamp Ring Drain

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Alproof drain
 NUMBER: SSCRC-D2a SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ Aquaknight HFlow roof drain

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Aquaknight HFlow roof drain
 NUMBER: SSCRC-D2b SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS bitumen fillet or approved alternative
 ⑥ EQUUS Base Sheet, as separate piece connected to Drainage
 ⑦ EQUUS Cap Sheet, as separate piece connected to Drainage
 ⑧ Alproof Dome Clamp Ring Drain

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Internal Gutter and parapet - Alproof drain
 NUMBER: SSCRC-D3a SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS bitumen fillet or approved alternative
 ⑥ EQUUS Base Sheet, as separate piece connected to Drainage
 ⑦ EQUUS Cap Sheet, as separate piece connected to Drainage
 ⑧ Aquaknight HFlow roof drain

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Internal Gutter and parapet - Aquaknight HFlow roof drain
 NUMBER: SSCRC-D3b SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS cap sheet as separate piece over Plywood Plinth
 ⑥ Plywood Plinth
 ⑦ Sealant
 ⑧ EQUUS Alsan Flashing (Quadro) or EQUUS Matarcyl
 ⑨ SHS penetration

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Pipe Penetration
 NUMBER: SSCRC-D4a SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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Shrink Sleeve	Shrink Sleeve
Internal diameter Body	Sleeve shrinkable to
18 mm	8 mm
22 mm	12 mm
42 mm	22 mm
55 mm	42 mm
66 mm	50 mm
88 mm	66 mm
110 mm	88 mm

① Concrete Roof Slab laid to Fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS base sheet as separate piece over Plywood Plinth
 ⑤ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑥ EQUUS cap sheet, as separate piece over Shrink Sleeve
 ⑦ Plywood Plinth
 ⑧ Bitumen Flange attached to Shrink Sleeve Body
 ⑨ EQUUS Alsan Mastic 2200 bitumen sealant
 ⑩ Shrink Sleeve Body internal diameter 55 mm
 ⑪ Shrink Sleeve

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Pipe Penetration with Shrink Sleeve
 NUMBER: SSCRC-D4b SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof slab laid to fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS Capsheet as separate piece over Roof edge profile
 ⑥ SHS Clamp Ring
 ⑦ Metal Pipe Penetration with gooseneck and installation Flange

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Pipe Penetration Solar PV Power Conduit
 NUMBER: SSCRC-D4c SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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① Concrete Roof slab laid to fall
 ② EQUUS SOPRADERE QUICK primer
 ③ EQUUS SOPRASUN PLUS 3 base sheet
 ④ EQUUS SOPRASUN PLUS MINERAL cap sheet
 ⑤ EQUUS Capsheet as separate piece over Plywood Plinth
 ⑥ Plywood Plinth
 ⑦ EQUUS bitumen fillet or approved alternative
 ⑧ EQUUS Alsan Mastic 2200 bitumen sealant
 ⑨ Ventilation Pipe

PROJECT: Cold Roof on Concrete Standard Detail
 TITLE: Ventilation Pipe with plinth Detail
 NUMBER: SSCRC-D4d SCALE: 1:3
 DRAWN BY: NKT DATE: 22-July-2022 REVISED:

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1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Electrical Conduit with SBS Flange

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Electrical Conduit
NUMBER:	SSCRC-D4e
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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 SOPREMA

1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Sloped drainage cricket to divert water around skylight
 7 EQUUS bitumen fillet or approved alternative
 8 Skylight Joinery

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Skylight Roof hatch with diverter
NUMBER:	SSCRC-D5a
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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 SOPREMA

1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Extra triangular piece of EQUUS cap sheet to divert water
 7 EQUUS bitumen fillet or approved alternative
 8 Skylight Joinery

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Skylight Roof hatch with Extra triangular piece of cap sheet to divert water
NUMBER:	SSCRC-D5b
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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AUTHORIZED DISTRIBUTOR
 SOPREMA

STEP 2: Fixing of the Equipment

1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS cap sheet as separate piece over Batten
 6 Roof Equipment
 7 EPDM Washer under Screwhead
 8 Timber Roof Batten

STEP 1: Fixing of the batten

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Roof Equipment Support Batten
NUMBER:	SSCRC-D4a
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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 SOPREMA

STEP 2: Fixing of the Equipment

1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS cap sheet as separate piece over Batten
 6 Roof Equipment Bracket
 7 EPDM Washer
 8 Timber Roof Batten

STEP 1: Fixing of the batten

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Roof Equipment Support Batten (optional)
NUMBER:	SSCRC-D4b
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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STEP 2: Fixing of the Monkey Toe Roof Profile

1 Concrete Roof slab laid to fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Monkey Toe Roof Profile Fixing with Neoprene Washer
 7 EQUUS Capsheet, as separate piece with Timber Plinth

STEP 1: Fixing of the Timber Plinth

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Monkey Toe Walkway Fixing Detail
NUMBER:	SSCRC-D6c
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
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1 Concrete Roof slab laid to fall
 2 Concrete Plinth
 3 EQUUS SOPRADERE QUICK primer
 4 EQUUS SOPRASUN PLUS 3 base sheet
 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
 6 EQUUS Capsheet as separate piece over Concrete Plinth
 7 Concrete Bolt for Fall Restraint Anchor
 8 Fall Restraint Anchor

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Fall restraint
NUMBER:	SSCRC-D6d
SCALE:	1:4
DRAWN BY:	NKT
DATE:	22-July-2022
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1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Plywood Plinth
 7 3 MM Foam tape on the underside of Baseplate
 8 Neoprene Washer

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	Safe2go 2 Cable
NUMBER:	SSCRC-D6e
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
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1 Concrete Roof Slab laid to Fall
 2 EQUUS SOPRADERE QUICK primer
 3 EQUUS SOPRASUN PLUS 3 base sheet
 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
 5 EQUUS Alcan Flashing (Quadro) or EQUUS Matasyrl
 6 Plywood Plinth
 7 Neoprene Washer
 8 M16 Chemset Threaded Rod

PROJECT:	Cold Roof on Concrete Standard Detail
TITLE:	M16 Anchor Eye to chemset
NUMBER:	SSCRC-D6f
SCALE:	1:3
DRAWN BY:	NKT
DATE:	22-July-2022
REVISED:	

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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 Equus cap sheet as separate piece over concrete Plinth
- 6 Equus cap sheet as separate piece over Plinth
- 7 Concrete Plinth
- 8 Angle Filler
- 9 Concrete Plinth
- 10 Equus cap sheet as a separate piece in case of heavy loads
- 11 Bracket Fitting with Neoprene Washer
- 12 Equipment Bracket

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Heavy equipment plinth
NUMBER :	SSCRC-D6g
SCALE :	1:3
DRAWN BY :	NKT
DATE :	22-July-2022
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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS FixPlus pedestals
- 6 Pavers

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Pavers on EQUUS FixPlus pedestals
NUMBER :	SSCRC-D7a
SCALE :	1:5
DRAWN BY :	NKT
DATE :	22-July-2022
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- 1 Concrete Roof Slab laid to Fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 Aluminium Flashing treated with EQUUS 'Spray & Go' Primer

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Connection to external gutter
NUMBER :	SSCRC-D8a
SCALE :	1:5
DRAWN BY :	NKT
DATE :	22-July-2022
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- 1 Concrete Roof slab laid to fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 Scupper drain with membrane clamped inside

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Scupper Drain
NUMBER :	SSCRC-D9a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	22-July-2022
REVISED :	

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- 1 Concrete Roof slab laid to fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS bitumen fillet or approved alternative
- 6 PE Drain

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Parapet with overflow
NUMBER :	SSCRC-D9b
SCALE :	1:3
DRAWN BY :	NKT
DATE :	22-July-2022
REVISED :	

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- 1 Concrete Roof slab laid to fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 PE Scupper Drain
- 6 EQUUS Masticwyl C-profile
- 7 EQUUS Alcan Mastic 2200 bitumen sealant
- 8 Capping (by others)

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Parapet with scupper drain with roof capping
NUMBER :	SSCRC-D9c
SCALE :	1:3
DRAWN BY :	NKT
DATE :	22-July-2022
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- 1 Concrete Roof slab laid to fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 5 EQUUS Cap sheet as separate piece
- 6 Mechanical Fastening of Scupper Drain
- 7 EQUUS bitumen fillet or approved alternative
- 8 Scupper drain
- 9 EQUUS Cap sheet, as separate piece over Roof Edge Profile
- 10 Roof Edge Profile

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Parapet with scupper drain
NUMBER :	SSCRC-D9d
SCALE :	1:2
DRAWN BY :	NKT
DATE :	21-July-2022
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- 1 Concrete Roof slab laid to fall
- 2 EQUUS SOPRADERE QUICK primer
- 3 EQUUS SOPRASUN PLUS 3 base sheet
- 4 EQUUS base sheet as separate piece
- 5 EQUUS SOPRASUN PLUS MINERAL cap sheet
- 6 EQUUS Cap sheet as separate piece
- 7 EQUUS bitumen fillet or approved alternative
- 8 Sub sill by others
- 9 Aluminium angle
- 10 EQUUS Spray & Go primer
- 11 EQUUS Alcan Mastic 2200 bitumen sealant

PROJECT :	Cold Roof on Concrete Standard Detail
TITLE :	Door Detail
NUMBER :	SSCRC-D10a
SCALE :	1:2
DRAWN BY :	NKT
DATE :	22-July-2022
REVISED :	

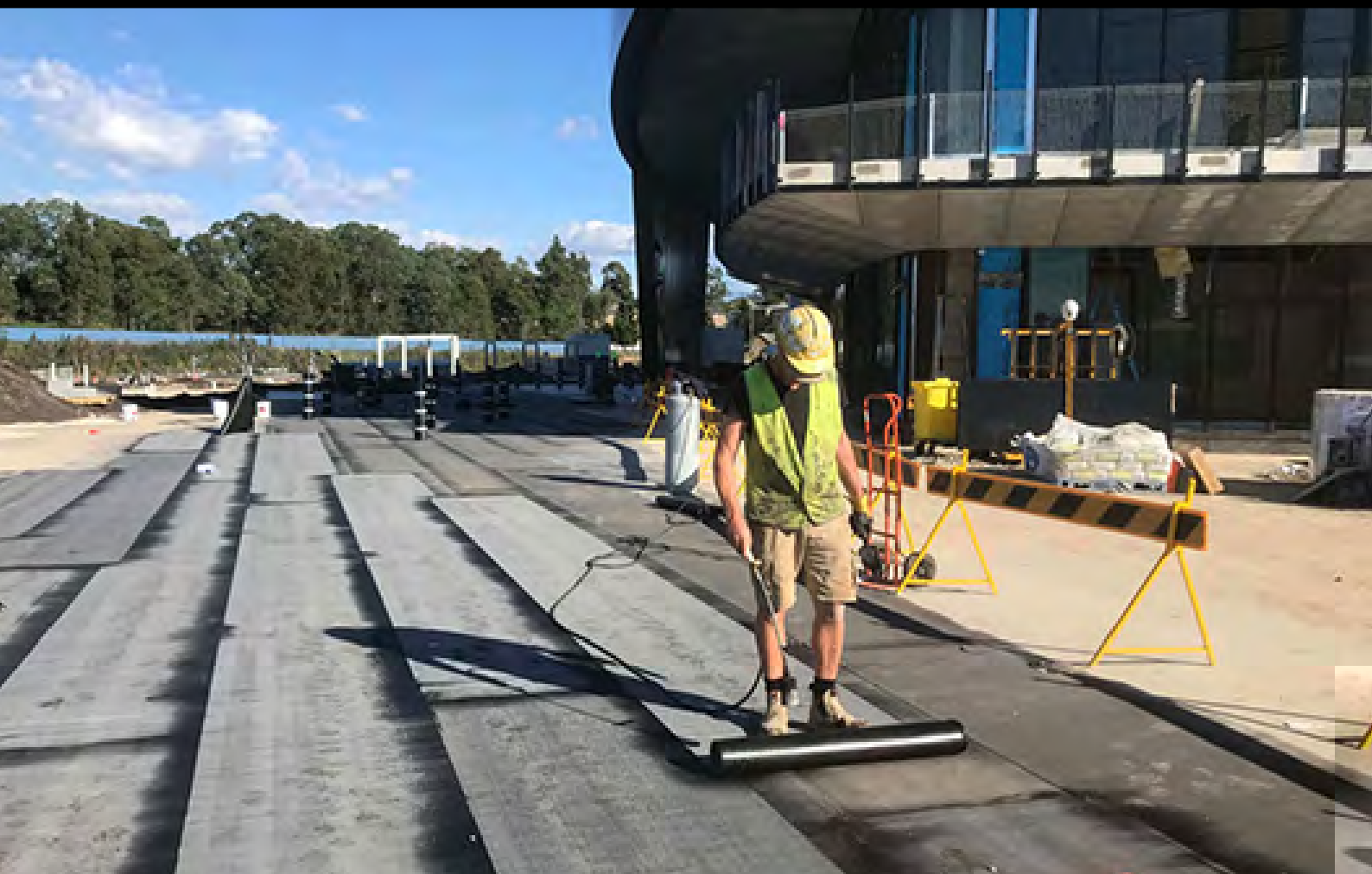
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WHO ARE WE?

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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