

DUO LANDSCAPE GREEN ROOF SYSTEM

Root resistant, bitumen waterproofing system for green roofs and decks

August 2024

PURPOSE AND SCOPE OF USE:

The DUO LANDSCAPE membrane system is a torch-applied waterproofing system, consisting of two-layers of modified bitumen. The DUO LANDSCAPE system differs from the standard DUO Roof & Deck Membrane as the cap sheet has a root resistant additive, making it specifically designed for use on green roofs, roof gardens, planter boxes and courtyards. It offers a superior, durable and root resistant waterproofing system, with the usual benefits of the DUO membrane; fire retardance, 35 year expected durability in New Zealand climates, and UV-resistance (meaning it can also be left exposed).

The system has a range of base sheets suitable for different building requirements, including self-adhesive membranes, making it a customisable solution with UV and weather resistance suitable for any location and wind zone in New Zealand. With the correct primer, DUO LANDSCAPE can be applied over concrete, plywood and CLT substrates.

A DUO LANDSCAPE Green Roof is also available as a warm roof (a DUOTHERM Green Roof), with a thermal insulation board and a vapour barrier. A warm roof system guarantees a continuous and efficient thermal resistance (R-value), negating condensation build up and creating energy savings.

Suitable for new builds and refurbishments, residential and commercial construction.

PRODUCTS:

The system encompasses a selection of the products below. Refer to standard specification documents for full specification details. Technical datasheets and specifications can be found on <https://equus.nz>.

DUO HT 4 Slates/F C180 FC Landscape	DEBOFLEX 2.5 T/F C175
SOPRASUN PLUS 3	SOPRASTICK
SOPRASTICK VENTI TACK PLUS	COLPHENE 3000
Eurothane Silver PIR Board	SOPRA-ISO PIR BOARD
SOPRAROCK Mineral Wool Insulation	Permabase Dek
Mechanical Fixings	Liquid Membrane Detailing
DUO HT 4 Slates/F C180 FC	SOPRADERE QUICK
COLTACK EVOLUTION 750	EQUUS Peel and Stick Primer
ALSAN MASTIC 2200	

SPECIFICATIONS:

Duo Landscape Green Roof
Duotherm Landscape Warm Roof
Masterspec 4421EB Equus DUO Roof & Deck Membrane by SOPREMA
Masterspec 4421ED Equus DUOTHERM Warm Roof & Deck Membrane by SOPREMA

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COLOUR:

Standard Cap Sheet Colour: WGG (White Grey Green).

CONDITIONS OF USE:

Before the installation of the soil and planting the membrane shall be covered by an Equus drainage and protection mat layer such as Danodren H15 Plus. This layer assists with the protection of the membrane and drainage of the soil.

The product must be installed by a Certified Equus Applicator. Verification of their status can be confirmed by a current applicator certificate or by contacting Equus Industries. Any installation must be done in accordance with the latest specifications and technical documentation, or with written approval by Equus Industries Ltd.

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (b), DUO & DUOTHERM LANDSCAPE Membrane has a durability of at least 15 years, and a life expectancy of 35 years, when installed with the correct specification, installation, and maintenance. See CodeMark CMNZ70151, BRANZ Appraisal 685, DUO Durability Study.

E2 External moisture - E2.3.1, E2.3.2, E2.3.7 Test data, together with in-service history in New Zealand and internationally, of the correctly installed DUO & DUOTHERM LANDSCAPE Membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 685, DUO Durability Study.

E3 Internal moisture - E.3.3.1 DUOTHERM LANDSCAPE Warm Roofs provide the habitable buildings with adequate thermal resistance and R-values that are equal to or above those specified in E3/AS1. See BRANZ Appraisal 1169.

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

H1 Energy efficiency - H1.3.1 (a) DUOTHERM LANDSCAPE Warm Roofs provide the building with adequate thermal resistance and R-values that are equal to or above those specified in H1/AS1 and H1/AS2. See BRANZ Appraisal 1169.

SUPPORTING DOCUMENTATION:

The following additional documentation supports the above statements:

Title (type)	Version	URL
Codemark Certificate CMNZ70151	30 June 2023	www.equus.nz/content/reports/codemark-soprema-waterproofing-membranes.pdf
BRANZ Appraisal No. 685	27 April 2022	www.equus.nz/content/reports/branz-appraisal-duo-685.pdf
BRANZ Appraisal No. 1169	02 November 2022	www.equus.nz/content/reports/branz-appraisal-warmroof-1169.pdf
DUO Durability Study	2018	www.equus.nz/content/reports/durability-study-duo.pdf
Technical Datasheets for products listed on page 1 of this document		Technical datasheets can be found on www.equus.nz .



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WARNINGS AND BANS:

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

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
Manufacturer website	www.equus.nz
Manufacturer email	info@equus.nz
Manufacturer phone number	03 578 0214
Manufacturer NZBN	9429032000306