

DUOTHERM WARM ROOF SYSTEM

Waterproof roofing membrane with a vapour barrier and thermal insulation

January 2025

PURPOSE AND SCOPE OF USE:

The DUOTHERM Warm Roof System is a light-weight, thermally insulated roof & deck waterproofing system consisting of the fire-retardant DUO two-layer membrane system applied over 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.

The system is designed for use on exposed flat roofs and decks, with UV and weather resistance suitable for any location and wind zone in New Zealand.

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

DUOTHERM Warm Roofs can be overlaid with Fixplus or other approved pedestals, pavers and decking, Kraitec Step walkway tiles, or SOPRASOLAR non-penetrative solar panel supports or other approved supports.

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

PRODUCTS:

The system encompasses a selection of the products below. Refer to standard specifications for full specification details. Technical datasheets and specifications can be found on www.equus.nz.

SOPRADERE QUICK	COLTACK EVOLUTION 750
EQUUS Peel and Stick Primer	Mechanical Fixings
DEBOFLEX 2.5 T/F C175	Eurothane Silver PIR Board
SOPRASUN PLUS 3	SOPRA-ISO PIR Board
COLPHENE 3000	SOPRAROCK Mineral Wool Insulation hd60
SOPRASTICK	Permabase Dek
SOPRASTICK VENTI TACK PLUS	Liquid Membrane Detailing
DUO HT 4 Slates/F C180 FC (or variant)	SOPRAVAP'R

SPECIFICATIONS:

Duotherm on concrete substrate
Duotherm on plywood substrate
Duotherm on metal substrate
Masterspec 4421ED Equus DUOTHERM Warm Roof & Deck Membrane by SOPREMA

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COLOUR:

Standard Cap Sheet Colours: GW (Grey White), NOIR (Black), WGG (White Grey Green), BO (Brown Oxide). Colour availability is stock dependant and may need to be specially ordered.

CONDITIONS OF USE:

In areas of regular foot traffic, higher than for normal maintenance traffic, the membrane must be overlaid with Fixplus pedestals and pavers or decking, Kraitec Step walkway tiles or other approved protection.

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.

BUILDING CODE COMPLIANCE:

B2 Durability - B2.3.1 (b), DUOTHERM Warm Roofs have 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 1169, 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 DUOTHERM Warm Roofs membrane over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See CodeMark CMNZ70151, BRANZ Appraisal 1169, BRANZ Appraisal 685, DUO Durability Study.

E3 Internal moisture - E.3.3.1 DUOTHERM 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 DUOTHERM Warm Roofs complies with this performance requirement. Refer to SDS at www.equus.nz and BRANZ Appraisal 1169.

H1 Energy efficiency - H1.3.1 (a) DUOTHERM 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:

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 .

The following additional documentation supports the above statements:

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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