FLAGON TPO-THERM WARM ROOF SYSTEM

Single layer TPO waterproofing with vapour barrier and thermal insulation

November 2026

PURPOSE AND SCOPE OF USE:
The EQUUS SOPREMA FLAGON TPO-THERM warm roof system is a lightweight, thermally insulated roofing system consisting of the FLAGON TPO single layer membrane applied over a thermal insulation board and vapour barrier. A warm roof system guarantees a continuous and efficient thermal resistance (R-Value) as per the New Zealand Building Code's H1 requirements. This system is designed for us on exposed flat roofs and decks.

FLAGON TPO provides a UV resistant, puncture resistant membrane, that is installed with adhesive and hot air meaning a totally flameless installation for the residential and commercial industries. Suitable for use over plywood, concrete, insulated panel or other approved substrates. Suitable for roofs, decks, balconies, gutters and other waterproofing applications on new builds or renovations.

FLAGON TPO is available in a naked or fleece-backed option, depending on project requirements. The naked TPO is a more economical option, but the fleece-backed TPO is more aesthetically forgiving over imperfect substrates.

FLAGON TPO can be overlaid with Equus Jacks or other approved pedestals, pavers and decking, Kraitec Step walkway tiles, and Soprasolar or other approved solar panel supports.

PRODUCTS:
The system encompasses a selection of the products below. Refer to standard specifications P3601 and P3602 for full specification details. Technical datasheets and specifications can be found on https://equus.nz

FLAGON EP/PR	Eurothane Silver PIR Board
FLAGON EP/PV-F	SOPRA-ISO PIR Board
FLAGON EP	SOPRAROCK Mineral Wool Insulation
Equus TPO Adhesive	Mechanical Fixings
FLEXOCOL A89 Adhesive	Roof Cover Board
SOPRAVAP'R or approved vapour barrier	FLAGON Termination Bar and other premanufactured accessories
COLTACK EVOLUTION 750 or approved PU Foam	FLAGMETAL and accessories

SPECIFICATIONS:

TPO-THERM on plywood substrate
TPO-THERM on concrete substrate
TPO-THERM on metal substrate
TPO-THERM on insulated panel substrate
Masterspec 4422EF EQUUS SOPREMA FLAGON TPO Roof & Deck Membrane

COLOUR:
Standard membrane colour of Basalt Grey, or available in Sand Grey with a higher solar reflectance.

CONDITIONS OF USE:
In areas of regular foot traffic or higher than for normal maintenance traffic, the membrane must be overlaid with Equus Jacks 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 Ltd.

masterspec partner

4422EF Equus Soprema Flagon TPO Roof & Deck Membrane by Soprema

BRANZ Appraised Appraisal No. 1169

BRANZ Appraised Appraisal No. 1157

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 update information parameters and formulations at any time without notice.

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BUILDING CODE COMPLIANCE:
B2 Durability - B2.3.1 (b), FLAGON TPO-THERM has a durability of at least 15 years when installed with the correct specification, installation and maintenance. See BRANZ Appraisal 1157, BRANZ Appraisal 1169.

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 FLAGON TPO-THERM Warm Roof over correctly designed and constructed substrates, show that the membrane successfully resists the ingress of moisture. See BRANZ Appraisal 1157, BRANZ Appraisal 1169.

E3 Internal moisture - E.3.3.1 FLAGON TPO-THERM 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 FLAGON TPO-THERM complies with this performance requirement. Refer to SDS at www.equus.nz

H1 Energy efficiency - H1.3.1 (a) FLAGON TPO-THERM 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:
Can be found at: www.equus.nz

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	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

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