

Certificate no: CMNZ70094

Version: 1

Original issue date: 14 May 2021

Version date: 05 April 2024

1. Certificate Holder Details



Neuchâtel Waterproofing Ltd

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2. Product Certification Body

Bureau Veritas Australia Pty Ltd

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Melbourne VIC 3000 Australia
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Complaints: The complaints process for this certificate can be found here:
www.bureauveritas.com.au/your-feedback

Sam Guindi – Bureau Veritas Product Certification Manager



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Neuchâtel Armourplan Single Ply Membrane System

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. Continuation of description can be found in item 10 – Supporting Information about Description. [Delete if not applicable]. 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

The Neuchâtel Armourplan Single Ply Membrane System is a range of polyester-reinforced single-ply polyvinyl chloride (PVC) membranes:

- Armourplan® SG - A polyester fleece-backed membrane for bonded roofing systems.
- Armourplan® PSG - Glass tissue reinforced polyester fleece-backed PVC membrane suitable for both flat and sloping roofs.
- Armourplan® SM - A polyester reinforced membrane for mechanically fastened roofing systems.
- Armourplan® P - A heavy duty polyester reinforced membrane for use in a wide range of roofing applications on both flat and sloping roofs. This membrane can be mechanically fixed, adhered or ballasted.

The Neuchâtel Armourplan Single Ply Membrane System may also incorporate thermal insulation:

- IKO enertherm MG — polyisocyanurate board with mineral glass tissue facings on both sides
- IKO enertherm ALU — polyisocyanurate board coated on both sides with a multi-layer gastight aluminium complex
- IKO enertherm GOLD - 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex.

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. Continuation of intended use can be found in item 11 – Supporting Information about Intended use. [Delete if not applicable]

The Neuchâtel Armourplan Single Ply Membrane System is a roof and deck waterproofing membrane, and with insulation, contributes to the thermal resistance of the building envelope. It can be applied to warm, cold or inverted 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).

How the building method or product complies or contributes can be found in item 8. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and Limitations of use.

B1 Structure: B1.3.1, B1.3.2, B1.3.3 (b), (h), (q), B1.3.4

B2 Durability: B2.3.1 (a), (when concealed*) or B2.3.1 (b) (not concealed), B2.3.2 (when concealed)

E2 External Moisture: E2.3.1 (contributes to), E2.3.2, E2.3.7

E3 Internal Moisture: E3.3.1 (contributes to) (when used with enertherm insulation)

F2 Hazardous Building Materials: F2.3.1

H1 Energy Efficiency: H1.3.1 (contributes to) (when used with enertherm insulation)



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* Concealed means when used as a substrate, or incorporated in a ballasted, or inverted insulated roof and when protected from UV light.

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.

1. The Neuchâtel Armourplan Single Ply Membrane System is certified for use on buildings:

- a) situated:
 - i) in Wind Zones, up to, and including Extra High (as defined in NZS 3604:2011), and within the scope limitations of NZBC Acceptable Solution E2/AS1 para 1.1 with regards to building height, or
 - ii) in wind pressures up to a maximum design differential ultimate limit state (ULS) of 9 kPa for fully bonded membranes or a ULS wind pressure determined by specific design for mechanically fastened membranes, and
- b) where the roof or deck pitch is pitched or nominally flat (1:80) and
- c) where the sub-structure is:
 - i) timber designed in accordance with NZS3604:2011 as a light roof, or
 - ii) concrete or other specifically designed sub-structure designed in accordance with verification method B1/VM1 (Amendment 15) using the structural design actions in AS/NZS1170:2002, and
- d) where the substrate for the membrane is:
 - i) timber - plywood (CCA H3.2 treated) or OSB, or
 - ii) Concrete (cast in-situ or pre-cast), or
 - iii) Metal - aluminium or galvanised steel (including composite cold store roofing panels), and
- e) where the membrane is subject to pedestrian traffic other than for installation and general maintenance either Armourplan Walkway shall be used or additional protection provided to the membrane.

2. The Neuchâtel Armourplan Single Ply Membrane System shall:

- a) be designed and installed in accordance with the IKO Systems Guidelines V9, May 2017, and A Specifier's Design Guide to Polymeric Single Ply Roofing, IKO0715, July 2015, and
- b) be installed by Neuchâtel Waterproofing Ltd approved applicators (contact certificate holder for list of approved applicators).

3. This certification does not include:

- a) the design and construction of the substrate and movement / control joints, or
- b) the weather tightness design of all junctions on specifically designed buildings, or
- c) applications where ancillary components other than those provided by Neuchâtel Waterproofing Ltd listed in the Technical Literature are substituted with alternative products, except as provided for in Condition #4 below.



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4. This certification allows for the substitution by an alternative woodwool slab, PIR insulation board or mineral wool insulating product subject to it complying with Building Code clauses B2 Durability B2.3.1(a) and F2 Hazardous Building Materials F2.3.1 which is supported by evidence such as a Product Certificate (CodeMark), Appraisal issued by a competent organisation or a product technical statement reviewed by a competent person.

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. 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.

B1 Structure – By analysis and comparison with the requirements of the performance requirements of Building Code performance clauses for B1 using EN Standard 13956:2012 Flexible Sheets for waterproofing – plastic and rubber sheets for roof waterproofing – Definitions and characteristics

B2 Durability – By analysis and comparison with Verification Method B2/VM1 using EN 13956:2012

E2 External Moisture – By analysis and comparison with the requirements of the relevant performance requirements of Building Code performance clauses for E2 using EN 13956:2012.

E3 Internal moisture – By analysis and comparison with Acceptable Solution E3/AS1 using EN 13956:2012

F2 Hazardous material – By comparison with the performance requirements of Building Code clause F2.3.1.

H1 Energy efficiency by analysis and comparison with Acceptable Solution H1/AS1 using EN 13956:2012



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9. 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.

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure 1st Edition (Amendment 19), 28 November 2019
2. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause B2 Durability (Amendment 12), 28 November 2019
3. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause E2 External moisture 3rd edition (Amendment 10), 5 November 2020
4. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E3 Internal Moisture Second edition (Amendment 7), 5 November 2020
5. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause H1 Energy Efficiency (Amendment 4), 28 November 2019
6. BS EN 13956:2012 Flexible sheets for waterproofing. Plastic and rubber sheets for roof waterproofing. Definitions and characteristics, 12 January 2013
7. BBA Agrément Certificate 05/4287 Product Sheet 1 Armourplan SM Roof Waterproofing System, 2 April 2020
8. BBA Agrément Certificate 05/4287 Product Sheet 2 Armourplan SG Roof Waterproofing System, 4 April 2020
9. BBA Agrément Certificate 05/4287 Product Sheet 3 Armourplan P Roof Waterproofing System, 2 April 2020
10. BBA Agrément Certificate 05/4287 Product Sheet 4 Armourplan PSG Roof Waterproofing System, 2 April 2020
11. BBA Agrément Certificate 15/5283 Product Sheet 3 IKO enertherm ALU and enertherm GOLD Insulation Boards for Flat Roofs, 28 April 2020
12. Constructech - Resistance to dynamical wind loads according to EN 16002:2018, Test Report 20190815-239-4
13. BRE Report - Dynamic wind uplift testing on single ply roofing systems for Apollo Roofing Solutions, Report No. 291-598, 21 January 2014
14. Kiwa - IKO Armourplan SM / Eurofast TLKS/B-45-100 / IKO Enertherm ALU / trapezoidal steel deck, Report No. 0114-L-17/1, 19 May 2017
15. MSDS Spectrabond Low Foaming PU Adhesive, 1 June 2019
16. MSDS IKOpro Sprayfast FMA Adhesive, 30 May 2022
17. IKOpro Sprayfast FMA - Fast-Track Adhesive for Fleece-Backed Roofing Membranes, October 2017
18. IKOpro Sprayfast IBA - Fast-Track, Professional Insulation Bonding Adhesive, October 2017
19. IKOpro Sprayfast PCA - Fast-Track, Multipurpose Adhesive for PVC Roofing Membranes, November 2017
20. A Specifier's Design Guide to Polymeric Single Ply Roofing, IKO0715, July 2015
21. System Installation Guidelines – IKO Armourplan PVC & IKO Polymeric, Issue 4, June 2017



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10. Supporting Information About Description (Optional)

Any supporting information for section 3.

- Armourplan® SG is available in either 1.2mm or 1.5mm standard thicknesses.
- Armourplan® PSG is available in 1.2mm standard thickness.
- Armourplan® SM is available in either 1.2mm or 1.5mm standard thicknesses.
- Armourplan® P — can be mechanically fixed, adhered or ballasted. It is available in 1.2mm standard thickness. The range of membranes is available in 2 standard colours; mid grey (RAL 7046) and slate grey (RAL7015). Other colours available by special request.

Components of the system include:

- IKO enertherm MG — polyisocyanurate board with mineral glass tissue facings on both sides
- IKO enertherm ALU — polyisocyanurate board coated on both sides with a multi-layer gastight aluminium complex
- IKO enertherm GOLD - 100 % CFC, HCFC or HFC-free insulation board with a rigid polyisocyanurate foam core, clad on both sides with a multi-layer gastight aluminium complex.
- Spectrabond Low Foaming PU Adhesive - for bonding the membrane to the substrate
- IKOpro Sprayfast FMA Adhesive - for bonding the membrane to the substrate
- Armourplan PVC Contact Adhesive — ready-to-use contact adhesive for adhering PVC roofing membranes onto various substrates
- IKOfix Fixing Range — mechanical fixings and pressure plates for attachment of membranes and insulation boards
- IKOfix Toothed Flatbar — steel fixing strips for membrane anchorage on mechanically fastened, inverted and ballasted systems
- Armourplan Membrane Coated Metal — 0.6 mm galvanized steel sheet, coated with 0.6 mm of Armourplan PVC Membrane, for use in detailing
- IKO Systems Torch-On Underlay — a torch-on air and vapour control layer suitable for metal decks
- IKO Systems S-A Underlay — a self-adhesive air and vapour control layer
- Polimar UV Detailing Liquid — a liquid-applied system for complex detailing
- Armourplan Detailing Membrane — homogeneous or glass tissue reinforced PVC membrane for complex detailing
- Armourplan Walkway — PVC membrane with a slip-resisting surface for use in areas of increased pedestrian traffic, such as for maintenance of plant
- Armourplan Cover Strips — glass tissue and polyester scrim reinforced membrane cover strips for jointing coated metals and detailing
- Armourplan Pre-formed Corners — pre-formed internal and external corners
- Armourplan Outlet Pipes
- Armourplan Seam Cleaner — preparation solvent for cleaning PVC roofing membranes as required (eg prior to welding)
- Armourplan PVC Standing Seam Profile — pre-formed PVC profile used to simulate a metal standing seam roof
- Armourplan Drip Details — prefabricated drip details
- Armourplan Chase Termination Details — prefabricated chase termination details
- Membrane Pipe and Post Details — prefabricated bespoke details formed using Armourplan Detailing Membrane
- Armourprep — acetone-based preparation solution for PVC roofing membranes with heavy moisture contamination
- IKOpro High Performance PU Adhesive — for bonding PIR insulation boards to the substrate
- IKOfix Aluminium Clamping Strips — aluminium clamping strips for upstand termination



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- IKO Glass Universal Underlay — torch-on air and vapour control layer suitable for use on concrete decks
- IKO Systems T-O VCL — torch-applied, metal-lined vapour barrier
- IKO Systems S-A VCL — self-adhesive, metal-lined vapour barrier
- Challenger Polyester 180 Sand VCL — suitable for pour-and-roll application
- Spectravap — a polyethylene air and vapour control layer
- IKOpro Systems Bonding Agent — a self-adhesive air and vapour control layer primer
- IKOpro Quick Dry Bitumen Primer — bituminous primer for torch-on and pour-and-roll air and vapour control layer applications
- Armourplan PVC Sealant — for sealing detail terminations
- Spectratex Separation Layer — polyester separation and protection layer

11. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

Further details regarding the use of the product can be found in A Specifier's Design Guide to Polymeric Single Ply Roofing, IKO0715, July 2015, and System Installation Guidelines – IKO Armourplan PVC & IKO Polymeric, Issue 4, June 2017.

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

Any supporting information for section 6.

N/A

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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