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CERTIFICATE NO: CM20182 Rev 2

1 CERTIFICATE HOLDER DETAILS

ARDEX New Zealand Limited

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2 PRODUCT CERTIFICATION BODY



SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

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ARDEX Butynol® Butyl Rubber Roofing Membrane System

Date of issue: 23/02/2021

Review Date: 02/04/2023

KEY INFORMATION

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

ARDEX Butynol® is a flexible synthetic rubber waterproofing membrane supplied in rolls of 1.4m width and 17.86m long. Available in a range of thicknesses and colours: 1.0mm (black), 1.5mm (black), 2.25mm (black), 1.2mm (dove grey), and 1.5mm (various colours).

Continuation of description can be found in item 9. Supporting Information about Description of Building Product or Method.

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

Catalogue or model identification numbers: Refer to item 9 for detailed identification information

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

ARDEX Butynol® is a single layer membrane applied to the outside of a substructure of a building for waterproofing decks, roofs, and box gutters.

Continuation of intended use can be found in item 10. Supporting Information about Intended use of Building Product or Method.

5 BUILDING CODE PROVISIONS – New Zealand Building Code (NZBC) as at JAN 2017

B1 – Structure – B1.3.1, B1.3.3(a, b, c, h, m, q), B1.3.4(a, b, c, d, e)

B2 – Durability – B2.3.1(a) (when concealed, e.g. protected by ballast or pavers), B2.3.1(b), B2.3.2(a)

E2 – External Moisture – E2.3.1 (contributes to), E2.3.2, E2.3.7(a, b, c)

F2 – Hazardous Building Materials – F2.3.1

G12 – Water Supplies – G12.3.2(c) (contributes to)

If designed, used, installed & maintained in accordance with the scope of this Certificate, the above-mentioned product will meet the following provisions of the NZBC.

How the building method or product complies or contributes can be found in item 12. Basis for Certification.

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



The certificate holder must maintain compliance with the conditions set out in section 15 of the Building (Product Certification) Regulations 2008.

This certificate is issued by SAI Global, an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of Ministry Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product, the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate.

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6 CONDITIONS AND LIMITATIONS OF USE

1. The Ardex Butynol Membrane system must be installed in accordance with the Manufacturer's Installation Instructions 'ARDEX Butynol® Installation Instructions (May 2018)'. ARDEX technical literature is available for download at www.ardex.co.nz
2. The Ardex Butynol Membrane system must be installed by an Ardex NZ approved installer as per the 'ARDEX Butynol® Installation Instructions (May 2018)' & product datasheet 'ARDEX Butynol® Butyl Rubber Membrane (August 2019)'. ARDEX technical literature is available for download at www.ardex.co.nz
3. May be used:
 - a. In all exposure zones excluding microclimates (as per NZS 3604:2011 para 4.2).
 - b. Up to 6.0 kPa ULS wind pressure differential for buildings subject to specific engineering design.
 - c. Where the substrate is plywood sheet or suspended reinforced concrete slab, or polyiso insulation board.
 - d. for all wind zones up to and including extra high for buildings within the scope limitations of NZBC. Acceptable Solution E2/AS1 para 1.1; or within the scope limitations of NZBC acceptable Solution. E2/AS1 with regards to building height and floor plan area subject to specific engineering design.In accordance with the Manufacturer's Install Instructions 'ARDEX Butynol® Installation Instructions (May 2018)' & product datasheet 'ARDEX Butynol® Butyl Rubber Membrane (August 2019)'
4. Unless protected by pavers or other protection, a minimum 1.5mm thick membrane must be used on a trafficable deck, in accordance with the Manufacturer's Install Instructions 'ARDEX Butynol® Installation Instructions (May 2018)' & product datasheet 'ARDEX Butynol® Butyl Rubber Membrane (August 2019)'
5. LOSP treated plywood must NOT be used as a substrate, as per the 'Substrate Specifications For membrane Applications (December 2018)'.
6. The substrate structure must be designed and constructed to a fall not less than 0.57 degrees (1:100) to shed precipitated moisture. Allowance for deflection and settlement of the substrate must be made in the design to ensure falls are maintained.

Reference Documents:

- ARDEX Butynol® Installation Instructions (May 2018) (All ARDEX technical literature available for download at to www.ardex.co.nz)
- Substrate Specifications For Membrane Applications (December 2018) (All ARDEX technical literature available for download at to www.ardex.co.nz)
- ARDEX Butynol® Butyl Rubber Membrane (August 2019) – This is a Product Data sheet (All ARDEX technical literature available for download at to www.ardex.co.nz)

7 HEALTH AND SAFETY INFORMATION

- ARDEX Safety datasheet – Butynol 5041-52 – Version 3.1.1.1 – Issued 18/03/2016 (All ARDEX technical literature available for download at to www.ardex.co.nz)



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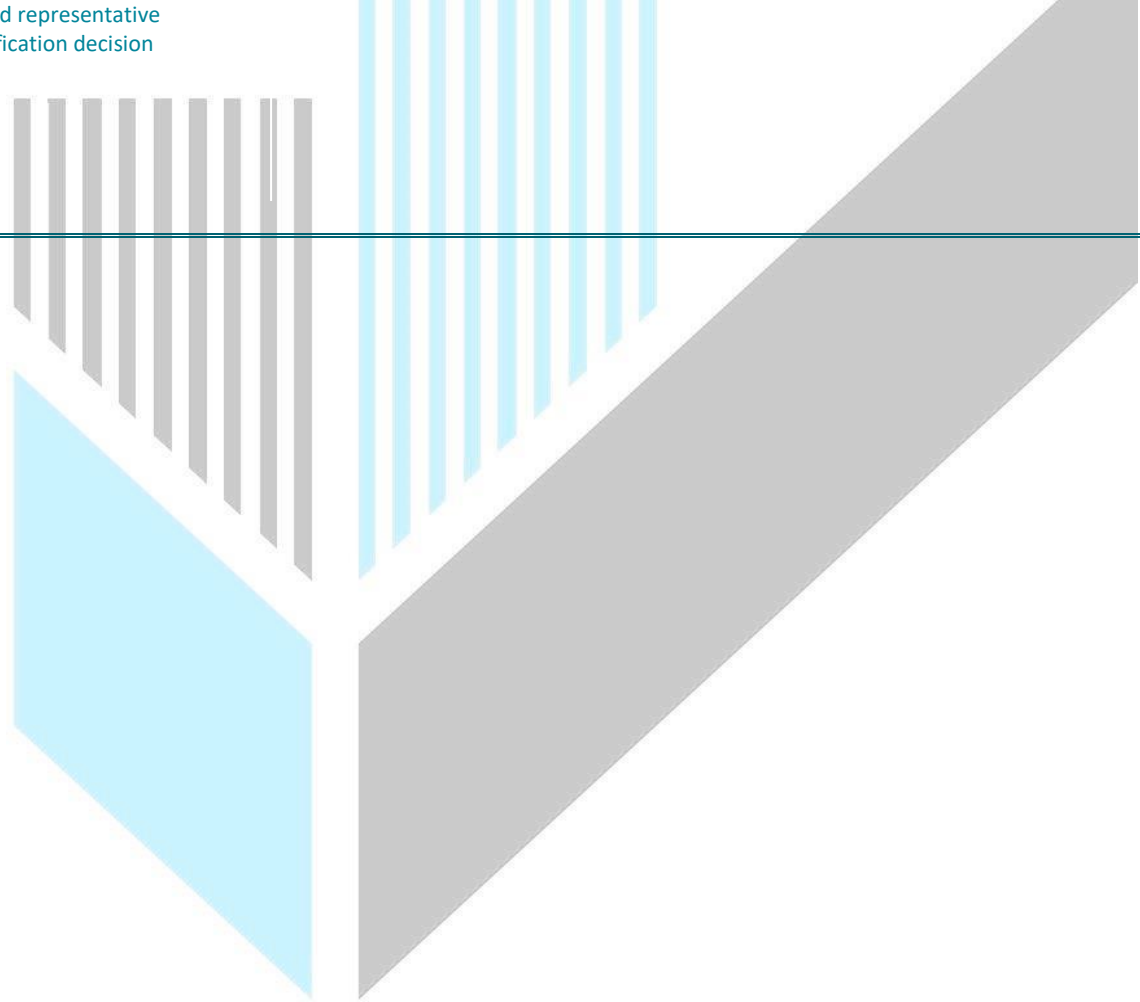


ARDEX Butynol® Butyl Rubber Roofing Membrane System

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

Frank Camasta
Global Head of Technical Services
SAI Global Assurance



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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9 SUPPORTING INFORMATION ABOUT DESCRIPTION

ARDEX Butynol® is a synthetic butyl rubber waterproofing membrane with properties which resist ageing from heat, sunlight and ozone. It has excellent gas permeability and toughness and remains flexible at low temperatures and is suitable in all exposure zones.

Components:

The components are detailed in the manufacturer's technical literature, and consist of;

- Butynol butyl rubber roofing membrane

Type	Weight
1.0mm Black	30kg
1.2mm Dove Grey	32kg
1.5mm Black	45kg
1.5mm all colours	47kg
2.25mm Black	32kg

- ARDEX WA 98 Adhesive

Product Name	Colour	Size	Product Code
ARDEX WA 98 A	Clear	20L	24188
ARDEX WA 98 A	Amber	20L	13052
ARDEX WA 98 A	Amber	4L	10870
ARDEX WA 98 A	Amber	1L	10869

- ARDEX WPM 290 Solvent (Ardex WA 98 Solvent)

Product Name	Size	Product Code
ARDEX WPM 290	20L	13050
ARDEX WPM 290	4L	10874
ARDEX WPM 290	1L	10873

- ARDEX Seam Tape

Product Name	Length	Width	Product Code
ARDEX Seam Tape	30.4m	50mm	10539



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• ARDEX WPM 299

Product Name	Size	Product Code
ARDEX WPM 299	1L	10880
ARDEX WPM 299	4L	10205

• ARDEX Detail Tape

Product Name	Colour	Width	Product Code
ARDEX Detail Tape	Black	150mm	10584

• ARDEX CA20P sealant

10 SUPPORTING INFORMATION ABOUT INTENDED USE

ARDEX Butynol® is a single layer membrane applied to the outside of a substructure of a building for waterproofing decks, roofs, and box gutters. The use in a Living roof system is not included as part of this certification

Reference Documents:

- ARDEX Butynol® Butyl Rubber Membrane (August 2019) – *This is a Product Data sheet*
- ARDEX Butynol® Installation Instructions (May 2018)
- ARDEX WA 98 A Solvent-Based Contact Adhesive (September 2018) – *This is a Product Data sheet*
- ARDEX WPM 290 Solvent for ARDEX WA 98 A (September 2018) – *This is a Product Data sheet*
- ARDEX Seam Tape Adhesive Tape for General Lap Bonding (October 2018) – *This is a Product Data sheet*
- ARDEX WPM 299 Seam Primer for Tape Application (September 2018) – *This is a Product Data sheet*
- ARDEX Detail Tape Self-Adhesive Butyl Detailing Tape (September 2018) – *This is a Product Data sheet*
- ARDEX CA20P Multipurpose Construction Adhesive and Sealant (July 2011) – *This is a Product Data sheet*
- Substrate Specifications For Membrane Applications (December 2018)
- BRANZ Appraisal No. 436 (2017) Butynol & Butyseal Roofing Membrane Systems – Amendment date 07/01/2019

Note: All ARDEX technical literature available for download at to www.ardex.co.nz

11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations are as stated above in item 6. **Conditions and Limitations of Use**



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12 BASIS FOR CERTIFICATION

- **Structure** – by testing and comparison with provisions of Verification Method B1/VM1 and Acceptable Solution B1/AS1
- **Durability** – by testing and comparison with provisions of Verification Method B2/VM1
- **External Moisture** - by testing and comparison with provisions of Acceptable Solution E2/AS1
- **Hazardous Building Materials** – by analysis and by testing
- **Water Supplies** – by testing and by comparison with the provisions of Acceptable Solution G12/AS1

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

1. **Building regulations 1992 (SR 1992/150)** – Reprinted as at 1 January 2017.
2. **Acceptable Solutions and Verification Methods** for New Zealand Building Code Clause **B1 Structure**. Amendment 17 (30 November 2018)
3. **Acceptable Solutions and Verification Methods** for New Zealand Building Code Clause **B2 Durability**. Amendment 10 (30 November 2018).
4. **Acceptable Solutions and Verification Methods** for New Zealand Building Code Clause **E2 External Moisture**. Amendment 8 (30 November 2018).
5. **Acceptable Solutions and Verification Methods** for New Zealand Building Code Clause **G12 Water Supplies**. Amendment 11 (30 November 2018)
6. **BRANZ Report DC2893/1 Testing of 1.0mm black BUTYNOL Membrane to the requirements of AS4654.1 2012 (Dated 8 August 2017)**. Waterproofing membranes for external above-ground use Part1: Materials. *The test report provides results for the 1.0mm (black) product when tested to AS4654.1-2012. The results demonstrate the product satisfies the requirements as a waterproofing membrane for areas subjected only to pedestrian traffic..*
7. **BRANZ Report DC2893/2 Testing of 1.5mm black BUTYNOL Membrane to the requirements of AS4654.1 2012 (Dated 21 August 2017)**. Waterproofing membranes for external above-ground use Part1: Materials. *The test report provides results for the 1.5mm (black) product when tested to AS4654.1-2012. The results demonstrate the product satisfies the requirements as a waterproofing membrane for areas subjected only to pedestrian traffic.*
8. **BRANZ Report DC2893/3 Testing of 1.5mm dove grey BUTYNOL Membrane to the requirements of AS4654.1 2012 (Dated 8 August 2017)**. Waterproofing membranes for external above-ground use Part1: Materials. *The test report provides results for the 1.5mm (dove grey) product when tested to AS4654.1-2012. The results demonstrate the product satisfies the requirements as a waterproofing membrane for areas subjected only to pedestrian traffic.*
9. **BRANZ Appraisal 436 [2017] Butynol and Butyseal Roofing Membrane Systems (Amendment 1 dated 7 January 2019)**. *This report provides an assessment of the durability and external moisture performance of Butynol and Butyseal roofing membrane Systems.*
10. **Australian water Quality Centre – Report ID 101214 (18 April 2012) (NATA Accreditation No. 1115) AS/NZS 4020 Testing of products for use in contact with drinking water. Passed all requirements of the standard (Black Butynol 1.0mm)**
11. **Ardex letter [Ronald Rose, Technical Services Manager] (21/09/2018)**. *History of successful use in applications with hydrostatic pressure.*
12. **ARDEX Safety datasheet – Butynol 5041-52 – Version 3.1.1.1 – Issued 18/03/2016**



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14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:
- (i) the name, address, or contact details of the certificate holder:
 - (ii) any address of a location where a certified product is produced or manufactured:
- (b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:
- (i) the certified building method or product:
 - (ii) the method of its production or manufacture:
 - (iii) the product quality plan prepared in respect of the certified building method or product:
 - (iv) the application or installation instructions for the certified building method or product:
 - (v) any documentation relating to the use and maintenance of the certified building method or product:
- (c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion:
- (d) if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:
- (e) if the certificate is suspended or revoked, the certificate holder—
- (i) notifies all customers to whom the building method or product is regularly supplied; and
 - (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.



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