



PRODUCT CERTIFICATE

THIS IS TO CERTIFY

STRANDSARKING® FOR LOW SLOPE MEMBRANE ROOFS

Certificate No: BRANZ-CM-1006-Rev1

Date of Issue: 20 February 2019

Revision Date: 20 February 2022

CERTIFICATE HOLDER



Laminex New Zealand

1 O'Rorke Road
Penrose
Auckland

Tel: 0800 303 606

Fax: 0800 303 707

Web: www.laminex.co.nz

CERTIFICATION BODY



BRANZ

BRANZ Limited

1222 Moonshine Rd,
RD1, Porirua 5381
Private Bag 50 908
Porirua 5240,
New Zealand

Tel: 04 237 1170

Email: assuranceservices@branz.co.nz

Web: branz.nz

Cheydra Percy
Chief Executive Officer
BRANZ Limited

DESCRIPTION OF PRODUCT

Strandsarking® is an engineered wood-based panel material for use as roof substrate under membrane roofs. All panels are ink marked with the New Zealand Timber Preservation Council registration number and treatment type, Strandsarking and a five digit traceability code.

USE OF PRODUCT

Strandsarking® is for use as roof sarking on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
- with a minimum roof fall of 2° [1:30]; and,
- with timber roof framing designed in accordance with NZS 3604, or timber roof members subject to specific design; and,
- with roof framing at a maximum of 400 mm centres; and,
- in NZS 3604 Wind Zones up to and including Extra High; and,
- in areas with a maximum snow loading of 1 kPa; and,
- with adhered sheet membrane roofing in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 8.5 or with adhered sheet membrane roofing covered by a valid BRANZ Appraisal, subject to the approval of the membrane supplier.

COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, B1.3.3 [a], [b], [c], [g], [h], and [q], and B1.3.4.

Clause B2 DURABILITY: Performance B2.3.1 [b] 15 years and B2.3.2 [a].

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.



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SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS

- The maximum exposure period for Strandsarking® before the completion of the installation of the membrane roofing is 8 weeks.
- The moisture content of the Strandsarking® must be controlled in accordance with the provisions of NZBC Acceptable Solutions E2/AS1 and E3/AS1, NZS 3604, and the Technical Literature
- Roof space ventilation must be provided under Strandsarking® as required by NZBC Acceptable Solution E2/AS1, Paragraph 8.5.2.
- Strandsarking® must not be used as roof bracing (diaphragm roofs).
- Strandsarking® must not be used as a substrate for decks or trafficable areas.
- The manufacturer does not intend Strandsarking® to be used at elevations above sea level greater than 500 m.

REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- BRANZ Appraisal No 946 (2016) Strandsarking® for Low Slope Membrane Roofs.
- Technical Literature: Strandsarking® Technical Manual, Edition 4, 07/19.

APPENDIX A - PRODUCT TECHNICAL DATA

A1: PRODUCT SPECIFICATION

Strandsarking® is manufactured from strands of radiata pine. The wood strands are treated with a water-based organic preservative and insecticide and contain a mineral wax-based water repellent. They are bonded with a pMDI resin.

Strandsarking® has a nominal thickness of 16.3 mm and comes as square edge panel. It has a textured surface to provide a macro-texture for a more slip resistant top surface than is available with smooth sanded panel products. The panels have an average density of 685 kg/m³ and average moisture content of 10% at manufacture.

For the purposes of calculating the building performance index of the building envelope the R-value of Strandsarking® 16.3 mm panels should be taken as 0.14 m² K/W. This has been determined through testing by BRANZ.

The product is available as 3600 mm x 800 mm panels with a nominal mass per panel of 32 kg and nominal mass 11 kg/m².

Fixings for use when installing Strandsarking® are 50 mm x 10 gauge [4.8 mm] stainless steel screws.

A2: INSTALLATION REQUIREMENTS

Installation must be carried out in accordance with the following:

- BRANZ Appraisal No 946 (2016) Strandsarking® for Low Slope Membrane Roofs.
- Technical Literature: Strandsarking® Technical Manual, Edition 4, 07/19.

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APPENDIX B - OTHER RELEVANT TECHNICAL DATA

B1: GENERAL

Strandsarking® panels must have main supports at 400 mm maximum centres.

Strandsarking® panels must be laid with the long edge perpendicular to the main supports in a staggered pattern (brickbond). The ends of each panel must be supported by main support framing or by solid blocking. All edges of Strandsarking® must be fully supported.

It has been determined by BRANZ that roof material including Strandsarking® not exceeding a mass of 25 kg/m² is to be considered as Light Roof for design in accordance with NZS 3604. Roof material including Strandsarking® with a mass of greater than 25 kg/m² is defined as Heavy Roof.

B2: PREVENTION OF FIRE OCCURRING

Separation or protection must be provided to Strandsarking® from heat sources such as fire places, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 – C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

B3: INSTALLATION

Strandsarking® fixings at panel ends and at intermediate supports must be at maximum 150 mm centres, except that in NZS 3604 Wind Zones Very High and Extra High, the fixings to intermediate supports must be at 100 mm maximum centres.

Refer to the membrane roofing supplier as to whether a gap between Strandsarking® panels is required.

A 5 mm clearance must be left between Strandsarking® panels and any other elements protruding through the roof.

Roofing material suppliers must be consulted in order to ascertain the specific ventilation requirements for their particular system. Refer to the Technical Literature and NZBC Acceptable Solution E2/AS1 for more information.

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APPENDIX C - BASIS OF CODEMARK CERTIFICATION

The following tests have been carried out on Strandsarking®:

- Testing in accordance with the requirements of AS/NZS 1860.1 and BRANZ criteria to demonstrate structural and durability performance.
- The change in the physical properties of Strandsarking®, including modulus of rupture, modulus of elasticity, internal bond strength, thickness swell and surface water absorption after natural weathering have been determined by BRANZ.
- Formaldehyde emission levels have been determined by testing to AS/NZS 4266.16. The results of these tests have been reviewed by BRANZ and found to be satisfactory.
- The thermal resistance of Strandsarking® has been determined by BRANZ.
- BRANZ testing and monitoring of wood-based panel products through BRANZ Appraisals since 1977.

The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.

The quality of supply to the market is the responsibility of Laminex New Zealand

Building designers are responsible for the design of the building, and for the incorporation of the Strandsarking® into their design in accordance with the instructions of Laminex New Zealand.

Quality of installation is the responsibility of the installer in accordance with the instructions of Laminex New Zealand.

SOURCES OF INFORMATION

- AS/NZS 1860.1: 2002 Particleboard flooring – Part 1: Specifications
- AS/NZS 4266.16:2004 Reconstituted wood based panels - Methods of test. Method 16: Formaldehyde emission - Desiccator method.
- BRANZ Appraisal No. 891 [2015] Strandsarking® Roof Sarking.
- NZS 3604: 2011 Timber-framed buildings.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Protection from Fire Clauses C1-C6, Ministry of Business, Innovation and Employment, First Edition April 2002 [Amendment 4, 1 January 2017]
- Acceptable Solutions and Verification Methods for New Zealand Building Code External Moisture Clause E2, Ministry of Business, Innovation and Employment, Third Edition July 2005 [Amendment 8, 30 November 2018].
- Acceptable Solutions and Verification Methods for New Zealand Building Code Internal Moisture Clause E3, Ministry of Business, Innovation and Employment, Second Edition February 1998 [Amendment 6, 01 January 2017].
- Ministry of Business, Innovation and Employment Record of Amendments for Compliance Documents and Handbooks.
- The Building Regulations 1992.

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