

Certificate no: CMNZ30160

Version: C

Original issue date: 12/09/2024

Version date: 1/10/2024

Renewal Date: 12/09/2027

1. Certificate Holder Details

TIMBERLINK®

Australia & New Zealand

Timberlink Australia Pty Ltd

Trading as NeXTimber

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2. Product Certification Body

Global-Mark Pty Ltd

Trading as Global-Mark

57 Willis Street, Wellington, 6011

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Complaints: The complaints process for this certificate can be found here:

www.global-mark.co.nz/complaints

Global-Mark Managing Director.



Herve Michoux

Product Certificate

NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels

3. Description of Building Method or Product

NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are engineered wood building elements made of H3.2 treated, machine graded, kiln-dried softwood, finger jointed radiata pine boards, dressed and glued along the faces and edges using MUF adhesive before being arranged in multiple layers (lamellas). Alternating layers are laid perpendicular to each other before being cured under pressure to form one solid rectangular panel (or billet). Individual building elements are then digitally cut from the billet.

The billet maximal dimensions and therefore the maximal dimension for the NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are as follow:

- Width: 2450mm to 3550mm
- Length: 6050mm to 16050mm
- Thickness: 60mm to 360mm
- lamellas: 3, 5, 7 or 9 layers

4. Intended use of Building Method or Product

NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are used as individual structural components for subfloors, walls, floors, lift-shafts and roof elements.

5. New Zealand Building Code Provisions

The System if designed, used, installed, and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:

Performance B1.3.1, B1.3.2 and B1.3.4, for the relevant physical conditions of B1.3.3 (a), (b), (f), (g) & (h)

Clause B2 DURABILITY:

Performance B2.3.1(a) 50 years and B2.3.2

Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:

Performance C3.4 (a) & (b)

Clause C4 MOVEMENT TO PLACE OF SAFETY

Performance C4.3 (contributes to)

Clause C6 STRUCTURAL STABILITY:

Performance C6.2 (contributes to), C6.3 (contributes to) & C6.4 (contributes to)

JAS-ANZ



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The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advise or reports. In placing the CodeMark mark on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein.

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Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1

6. Conditions and Limitations of Use

1. NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are certified for use in the design of buildings by a Chartered Professional Engineer:
 - a. with structural design actions determined in accordance with B1/VM1 1st edition Amendment 21 dated 02, November 2023 and
 - b. where the mechanical characteristic values and structural performances for the NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are
 - i. For standard layout, taken from NeXTimber® Technical Guide Version Version 2.0 August 2024; or
 - ii. For non-standard layout, calculated in accordance to one of the method below using the mechanical characteristic of MGP10 as defined in table H3.1 of NZS AS 1720.1:2022 as input:
 1. Chapter 3 of FP-Innovation CLT Handbook – 2019; or
 2. Section 3 to 6 of ProHolz Cross-Laminated Timber Structural Design Volume 1 : 2014; or
 3. Section 2 and 3 of the Swedish Wood - The CLT Handbook – UK-2022-V2; and
 - c. Where integrated in situations requiring fire resistance, the design shall be done in accordance with NeXTimber® Fire Performance Guide Version 2.0 July 2024; and
 - d. in applications described in Tables 1, 2, & 3 of NZS 3602:2003 as modified by the Acceptable Solution B2/AS1 amendment 12, 28 November 2019 for radiata pine products up to and including H3.2 Level of Treatment, and
 - e. where exposed as a wall or ceiling lining, in areas where a minimum Material Group Number of 3 is required.
2. Junctions and connections between NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels and with building elements are outside the scope of this certification.
3. NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are certified for use by a Chartered Professional Engineer in the design of the FRR of building elements:
 - a. in accordance with, and using the layout in, NeXTimber® Fire Performance Guide Version 2.0 July 2024, and
 - b. where the allowable axial compression capacity and FRR is determined using allowable axial compression capacity and FRL for the configuration considered provided in the Warrington Fire FAS210228 RIR1.1 Fire resistance performance of NeXTimber® CLT floors and walls, and GLT beams and columns.
4. Unloading, storage, handling and protection, preassembly check and assembly of NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels shall be done in compliance with the requirement of NeXTimber® Product site Guide Version 1.0 April 2024.



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5. The designer shall provide a signed Declaration for submission with the building consent application that the use of this product in the proposed building work falls within the intended use of the system as described in this certificate and that all design conditions of this certificate have been met.
6. The installer shall supply a signed Declaration that the product has been installed in accordance with the installation conditions identified by the Chartered Professional Engineer responsible for the design, and the applicable requirements of NexTimber® Product site Guide Version 1.0 April 2024 for consideration for issuing a Code Compliance Certificate (CCC).

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed at all times.

8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
B1 STRUCTURE	Alternate solution based on expert judgement	1, 3, 4, 5, 6, 7, 8, 21, 23 & 24
B2 DURABILITY	Alternate solution based on expert judgement	3, 4, 5, 6, 7, 9, 10 & 22
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:	Alternate solution based on expert judgement	2, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15, 16, 17 & 18 & 19
C4 MOVEMENT TO PLACE OF SAFETY	Alternate solution based on expert judgement	2, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15, 16, 17 & 18 & 19
C6 STRUCTURAL STABILITY:	Alternate solution based on expert judgement	2, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15, 16, 17 & 18 & 19
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution based on expert judgement	3, 4, 5, 6, 7 & 20

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
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001	NeXTimber®	Technical Guide	Version 2.0 August 2024
002	NeXTimber®	Fire Performance Guide	Version 2.0 July 2024
003	NeXTimber®	Product Site Guide	Version 1.0 April 2024
004 *	Timberlink	Compliance and Manufacturing Standard of CLT & GLT Timberlink Tarpeena	Version 1.0 13 September 2023
005 *	Timberlink	Compliance of structural timber Timberlink Tarpeena	Version 1.2 03 May 2023
006 *	Timberlink	Compliance System Treated Products Timberlink Tarpeena	Version 4.1 25 October 2023
007 *	NeXTimber®	CodeMark Manual NeXTimber® Tarpeena	Version 0.1 03 May 2023
008 *	Queensland University of Technology	Results of bending and Shear Tests on Cross Laminated Timber	23 December, 2021
009 *	Arch Wood Protection (Aust) Pty Ltd	A case for the suitability of Vacsol® Azure treated timber for use in hazard class H3.2 end uses in New Zealand	V1.0 March 2020
010 *	Arch Wood Protection (Aust) Pty Ltd	Arxada H3.2 Vacsol® Azure LOSP Codemark Treatment Protocol	V5 19 March 2024
011	Warrington Fire	FAS210228 Fire resistance performance of NeXTimber® CLT floors and walls, and GLT beams and columns.	RIR1 17 February 2023
012 *	Warrington Fire	FAS210228	R1.1 17 February 2023
013 *	Warrington Fire	FRT210358	R1.0 16 March 2022
014 *	Warrington Fire	FRT210182	R1.1 30 March 2022
015 *	Warrington Fire	FRT210356	R1.0 30 March 2022
016 *	Warrington Fire	FRT210355	R1.0 31 March 2022
017 *	Warrington Fire	FRT210357	R1.0 31 March 2022



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018 *	Warrington Fire	FRT210354	R1.0 08 April 2022
019 *	Warrington Fire	FAT210360	R1.0 30 April 2022
020	NeXTimber®	Safety Data Sheet - NEXTIMBER® LOSP TREATED CROSS-LAMINATED TIMBER (ChemAlert)	R1.1 16 May 2024
021*	EWPAAs	EWPAAs Product Certification Scheme, Mill 558 ISO 16696-1201Cross laminated Timber Component Performance, Production Requirements and Certification Scheme.	22 May 2024
022*	EWPAAs	EWPAAs Product Certification Scheme, Mill 558, AS/NZS 1604.1:2021 Preservative-treated wood-based products	22 May 2024
023 *	EWPAAs	EWPAAs Product Certification Scheme, Mill 558, AS/NZS 1748:2011 Solid Timber - Stress-Graded for Structural Purposes	16 December 2022
024*	EWPAAs	EWPAAs Product Certification Scheme, Mill 704, AS/NZS 1748:2011 Solid Timber - Stress-Graded for Structural Purposes	01 April 2022

* These documents were provided commercial in confidence and are not publicly available

10. Supporting Information About Description (Optional)

NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels are manufactured in accordance with ISO16696-1:2019 Timber structures — Cross laminated timber — Part 1: Component performance, production requirements and certification scheme. They are made of:

1. Fingerjointed board made of machine graded structural boards MGP10 or greater; with minimal width of 70mm, a thickness of 25, 35 or 45mm and a length between 1.8m and 6.0m and
2. adhesive conforms to the Type 1 adhesive classification stipulated in the AS/NZS 4364.

NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels complies with NZS AS 1720.1, through Clause ZZ1.3.1 (h) Other timber products and grades, as its characteristic properties, duration of load effects, and structural durability of adhesives, have been established by test or report. However, at present AS1720.1 – Design of Timber Structures, does not explicitly cover the design procedure for CLT. Design professionals will need to determine section properties based on industry accepted methods and apply the appropriate strength and serviceability structural design checks to meet compliance with the NZBC.

11. Supporting Information About Intended Use (Optional)



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Nil

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

Where it is determined that performance is required to be better than Group 3 for wall and ceiling applications, NeXTimber® VACSOL AZURE Treated Cross Laminated Structural Timber panels will require additional surface treatments (i.e. fire-grade, plasterboard, non-combustible linings, intumescent coatings etc.). These surface treatments are not within the scope of this certificate.

All CodeMark certificates that are current much 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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