



PRODUCT CERTIFICATE

Loxo Cladding System



BUREAU
VERITAS

CERTIFICATE NO: CM70065 Rev1

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1 CERTIFICATE HOLDER DETAILS

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2 PRODUCT CERTIFICATION BODY

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Bureau Veritas Australia Pty Ltd

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

KEY INFORMATION

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

The Loxo Cladding System consists of 50mm or 75mm-thick steel-reinforced Autoclaved Aerated Concrete (AAC) panels, 2200mm wide x 600mm high, mounted horizontally on H3.2 treated timber or high density expanded polystyrene (EPS) cavity battens and screw fixed to the external load-bearing wall. The Loxo Cladding System includes a plastered rendered coating to the exterior face of the panel.

*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.*

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

The Loxo Cladding System is a non-load-bearing external wall cladding fixed to battens on an external load-bearing wall.

Continuation of intended use can be found in item 8. Supporting Information about Intended use of Building Product or Method.

5 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).

B1 Structure: B1.3.1, B1.3.2, B1.3.3(a, f, h, j, q), B1.3.4
B2 Durability: B2.3.1(a), B2.3.1(b), B2.3.2
C3 Fire affecting areas beyond the fire source: C3.6 (contributes to), C3.7
E2 External moisture: E2.3.2, E2.3.5, E2.3.7
F2 Hazardous building materials: F2.3.1

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.



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. The Ministry does not in any way warrant, guarantee, or represent that the building method or product that is 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. The Ministry 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

- The Loxo Cladding System shall only be used on buildings that are:
 - timber-framed to NZS3604:2011 Timber framed buildings or steel-framed to NASH Standard Part 2: May 2019 Light Steel Framed Buildings, and
 - within the scope of Acceptable Solution E2/AS1 para 1.1, and with risk score not greater than 20, and
 - located in a wind zone up to and including Very High wind zone (as specified in NZS3604:2011), and
 - located in any seismic zone (as specified in NZS3604:2011), and
 - in any exposure zone (excluding microclimates) (as specified in NZS3604), and
 - in risk groups SH, SM, or VP (as defined in Acceptable Solution C/AS1 and Acceptable Solution C/AS2) without sprinklers, located any distance from a relevant boundary with the proviso that Loxo (VH) EPS Battens must not be used for the Loxo Boundary Fire Wall System located closer than 1m from a relevant boundary.
- The Loxo Cladding System shall be installed:
 - on walls that are vertical, and
 - in accordance with the Loxo Cladding Systems Technical Manual, August 2020, by a tradesperson with an LBP (Carpentry) license and approved by Loxo and the reinforced render and coating system applied by an applicator with an LBP (External Plastering) license and approved by Loxo.
- Where the Loxo Cladding System is used as a boundary fire wall it shall be designed and installed in accordance with the Loxo Cladding Systems Boundary Fire Walls Technical Manual, June 2018.
- All joinery used in conjunction with the Loxo Cladding System shall meet the requirements of NZS 4211:2008 Specification for performance of windows and be installed with vertical jambs and horizontal heads and sills.

NOTE: Together, items 3, 4, 5 and 6 define scope of use.

7 HEALTH AND SAFETY INFORMATION

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. Refer to section 12 for specific detail of compliance with the performance requirements of clauses F1 to F9 of the Building code.

8 SIGNATURES

Sam Guindi
Product Certification Manager

For and on behalf of
Bureau Veritas Australia Pty Ltd

Marcus Stufkens
Director

For and on behalf of
Loxo Cladding Systems NZ Ltd



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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9 SUPPORTING INFORMATION ABOUT DESCRIPTION

The Loxo Cladding System has the following components:

Autoclaved Aerated Concrete (AAC) panels 2200mm wide x 600mm high, 50mm or 75mm thick

Battens:

- Classic (VH) EPS (22mm) battens: 22mm x 40mm x 1200mm
- Deluxe (VH) EPS (50mm) battens: 50mm x 40mm x 1200mm
- H3.2 treated timber battens

Basecoat Plasters:

- Grano Adhesive Mortar with GranoMesh render or Masons Base Coat with Masons Meshing Render

Finishing Plasters and Coating:

- Granosite High Build Acrylic Texture Finish
- Granosite Cement Based Texture - Sponge Finish
- Masons Cement Based Texture - Sponge Finish
(as specified in the Loxo AAC Panel Specification August 2020 and related product specifications Watty! Granoshield Matt Low Profile, Watty! GranoMarble Shield, Masons Enviro 1mm Sponge Render)

Fixings:

- Bugle head self-cutting screws (Grade 3 or 4) 14-10 x 100mm long
- Bugle head self-cutting screws (Grade 3 or 4) 14-10 x 150mm long

Panel Adhesive:

- Loxo Panel Adhesive is a polymer modified cement-based adhesive mortar
- Bostik FixAll Tile Adhesive

Corrosion Protection Paint:

- Loxo Primer
- CRC ZINC IT

Flashings:

- Loxo PVC jamb flashing
- Loxo PVC sill flashing
- Metal flashings (supplied and installed by others)

Mouldings

- Loxo PVC slotted vermin control cavity closer Classic (22mm)
- Loxo PVC slotted vermin control cavity closer Deluxe (50mm)



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- Loxo PVC control joint moulding
- Loxo PVC base shoe moulding 50mm

10 SUPPORTING INFORMATION ABOUT INTENDED USE

NA

11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

NA



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12 BASIS FOR CERTIFICATION

- B1 Structure - By analysis and comparison with Verification Method B1/VM1
- B2 Durability - By analysis and comparison with Verification Method B2/VM1 and Acceptable Solution B2/AS1
- C3 Fire affecting areas beyond the fire source - By testing and comparison with Verification Method C/VM2 and Acceptable Solutions C/AS1 and C/AS2
- E2 External moisture - By testing and comparison with Verification Method E2/VM1 and Acceptable Solution E2/AS3
- F2 Hazardous building materials - By comparison with Building Code performance requirement F2.3.1

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

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, 2nd Edition (Amendment 12), 28 November 2019
3. C/VM1 and C/AS1 Acceptable Solution and Verification Method For New Zealand Building Code Clauses C1-C6 Protection from Fire, (Amendment 3), 1 July 2014
4. C/AS2 Acceptable Solution for Buildings other than Risk Group SH for New Zealand Building Code Clauses C1-C6 Protection from Fire, 1st Edition (Amendment 1), 22 October 2019
5. Verification Methods and Acceptable Solutions for New Zealand Building Code Clause E2 External Moisture, 3rd Edition (Amendment 9), 27 June 2019
6. CCANZ CP01:2014 Code of Practice for Weathertight Concrete and Concrete Masonry Construction, 1 January 2014
7. TM Consultants LOXO Wall Cladding Assessment, 19 Mar 2020
8. Exova Warringtonfire Assessment Report No: 38259000 NASAHI Super50 AAC external and boundary wall systems to AS1530.4-2014 Revision R6.3 Issued 3 November 2021
9. CSIRO Certificate of Test No. 2363A 172-mm thick Load-bearing Loxo Autoclaved Lightweight Aerated Concrete (AAC) panel wall system test to AS1530.4-2005
10. Identifibre Report No. 33238-1-bsa, 12 December 2018
11. Engenuity Consulting Engineers Report No. 18013001, 9 July 2018
12. Ian Bennie and Associates Test Report No.2020-093-S2(amended) NASHI 50mm Wall System, February 2021
13. Sharp and Howells Report Test Report No. 19-0125B Testing of Reinforced Autoclaved Aerated Concrete Members to AS5146.2, 17 October 2019
14. Loxo Cladding Systems Panel Systems Technical Manual, August 2020
15. Loxo Cladding Systems Boundary Fire Walls Technical Manual, June 2018
16. Masons Enviro 1 mm Sponge Render, July 2020
17. Wattyl Specification Sheet GNZ3610.21 Granoshield Matt Low Profile, Version 8, 25 August 2021
18. Wattyl Specification Sheet GNZ3413.21.2 GranoMarble Shield, Version 8, 25 August 2021
19. Loxo AAC Panel Specification, August 2020

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14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body (Bureau Veritas) 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.