

CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:

Lockwood Wall Systems



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Product Description

This Certificate relates to the three Lockwood wall systems: 107mm, 62mm and 44mm.

- The Lockwood 44 wall system consists of treated solid Pinus Radiata timber board,
- The Lockwood 62 wall system consists of treated solid laminated Pinus Radiata timber boards
- The Lockwood 107 wall system consists of two layers of treated solid laminated Pinus Radiata timber board held apart by two structural plywood spreaders with a center core of phenolic foam (polyiso) insulation.

The boards have an effective cover of 172 mm and interlock to form a solid wall. All Lockwood Wall Systems incorporate vertical interlocking wall componentry, tie rods, subfloor base flashings, wall stiffeners, prefabricated corner connections, nailing beams, ridge beams and posts, as well as other ancillary items.

The 62 mm and 107 mm profiles are manufactured with a prefinished external outer face. The outer face finishes are available in powder coated aluminum, cedar and laminated Pinus Radiata. The external wall systems incorporate aluminum joinery, which complies with NZS 4211:2008 including amendment 1, and all associated joinery flashings and wedges

Product purpose and use

1. The Lockwood Wall Systems are available in three wall thicknesses (44 mm, 62 mm and 107 mm) and depending on the selected thickness can be used for a combination of internal and external uses. The Lockwood 44 wall system is suitable for internal walls, the Lockwood 62 and 107 wall systems are suitable for internal and external wall applications. There are some situations where the Lockwood 44 wall system walls are extended through to the external envelope or form a selected part of the exterior envelope. In these situations, the wall must be packed, insulated and clad in accordance with the Lockwood Detail Manual (September 2017).
2. All Lockwood walls can be used for structural or non-structural applications. When used in conjunction with "X" profile connections and tie rods, they will contribute to the buildings overall wall bracing requirements, #See the Lockwood Structural Handbook March 2015 (Issue 2, Version 4, date: 3/03/2015).
3. Lockwood buildings shall be designed within the scope limitations of NZS 3604:2011, Paragraph 1.1.2.
4. Residential and light commercial buildings, situated in NZS 3604:2011 Wind Zones up to, and including, Extra High (55 m/s ultimate limit state wind speed) calculated in accordance with AS/NZS 1170.2:2011 (R2016) including amendment 1 to 5.
5. The Lockwood wall systems may be used in all exposure zones described in NZS 3604:2011, Section 4.2, provided that the tie rods, fasteners and fixings used are selected for the exposure condition in accordance with the document Lockwood 107 / 62 / 44 Wall Specification (issue No. 14, date: 19/12/2017).

Certificate holder

Lockwood Group Limited, 61 Fairy Springs Road, Rotorua, New Zealand
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CodeMark Certification Body		13/11/2013	27/06/2018	11/11/2019	GM-CM30044-Rev G
Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia Tel: +61 (0)2 9886 0222 www.Global-Mark.com.au	Herve Michoux Managing Director	Date of issue	Last update	Date of next re-certification	Certificate Number

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. This certificate is issued by Global-Mark Pty Limited, an independent certification body accredited by the product certification accreditation body (JAS-ANZ) appointed by the Chief Executive of the Ministry of Business Innovation and Employment under the Building Act 2004. The Ministry of Business Innovation and Employment 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. The Ministry of Business Innovation and Employment 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. This Certificate may only be reproduced in its entirety. It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the Ministry of Business Innovation and Employment website, <http://www.mbie.govt.nz/> New Zealand Building Code (NZBC) references the Building Code in force at the time of issuing the product certificate. Certificate holder will notify Global-Mark Pty Ltd in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008

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Compliance with the New Zealand Building Code (NZBC):

1. Lockwood wall systems if designed, used, installed and maintained in accordance with the conditions of this certificate, will meet or contribute to the following provisions of the NZBC:

Wall system	Description	Relevant NZBC clauses	Clauses covered by CodeMark
107 mm insulated solid timber board	Exterior solid laminated wall board with insulation sandwiched between external and internal layers of wood.	B1 Structure	Meet B1.3.1, B1.3.2 and B1.3.4 (b), (c), (d) and (e) for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) and (q).
		B2 Durability	Meet B2.3.1 (a) Meet B2.3.2 (a)
		E2 External Moisture	Meet E2.3.2 Meet E2.3.3 Meet E2.3.6 Meet E2.3.7 (b), (c)
		H1 Energy Efficiency	Contribute to H1.3.1 (a) and (b) Contribute to H1.3.2E
62 mm solid timber board	Exterior solid laminated timber wall board.	B1 Structure	Meet B1.3.1, B1.3.2 and B1.3.4 (b), (c), (d) and (e) for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) and (q).
		B2 Durability	Meet B2.3.1 (a) Meet B2.3.2 (a)
		E2 External Moisture	Meet E2.3.2 Meet E2.3.3 Meet E2.3.6 Meet E2.3.7 (b), (c)
44 mm solid timber board	Single profile 44 mm solid timber wall used internally	B1 Structure	Meet B1.3.1, B1.3.2 and B1.3.4 (b), (c), (d) and (e) for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) and (q).
		B2 Durability	Meet B2.3.1 (a) Meet B2.3.2 (a)

Subject to the following conditions and limitations:

- All Lockwood construction design, installation and maintenance must be carried out in accordance with the following set of documentation collectively reference as the applicable technical documentation:
 - the Lockwood Detail Manual (September 2017),
 - the Lockwood Structural Handbook March 2015 (Issue 2, Version 4, date: 3/03/2015)
 - the Lockwood 107 / 62 / 44 Wall Specification (issue No. 14, date: 19/12/2017),
 - the Lockwood Maintenance Schedule (Version 1, September 2017)
 - the Lockwood Wall Board Assembly Manual (Feb 2018 v5)
- Any deviation outside of the Lockwood Detail Manual (September 2017), the Lockwood Structural Handbook March 2015 (Issue 2, Version 4, date: 3/03/2015) is subject to specific design and outside the scope of this CodeMark Certificate.
- This CodeMark Certificate can only be used for a means of compliance where the building design incorporates Lockwood Wall systems only. Where the designer has specified conventional or other building methods in their wall design, such applications fall outside the scope of this certificate.
- Where design wind speeds exceed NZS 3604:2011 Extra High (55 m/s ultimate limit state wind speed), the building is subject to specific design and such applications fall outside the scope of this certificate.
- The tie rods, fasteners and fixings used shall be selected for the exposure condition in accordance with the applicable technical documentation

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6. This certificate may only be used as a means of compliance when accompanied by a Designer declaration that all design conditions of the Lockwood Codemark certificate have been met

Product Installation conditions

1. All construction of Lockwood Design buildings shall be carried out and/or supervised by a Lockwood trained Licensed Building Practitioner.
2. The installer shall also comply with all of the relevant information related to the Lockwood system contained within the applicable technical documentation

The Lockwood building components are factory manufactured off site. All of the componentry utilized in the Lockwood Wall Systems has undergone system improvements over a 50-year period. The following components are specific to the Lockwood Wall Systems:

- Factory fabricated wall boards (44, 62 and 107 mm in thickness)
- Tie rod full wall length with adjustable threads and a spring loaded top assembly
- Aluminium "X and V profile" custom wall connections
- Aluminium bottom board locator (seating profile)
- Aluminium powder coated outer corner extrusion
- Stiffener posts
- UPVC base sealing profile
- Clip on powder coated aluminium exterior cladding facing
- Lockwood design aluminium joinery flashings and seals

End of record.