



PRODUCT CERTIFICATE

Kooltherm® K12 Framing Board

CERTIFICATE NO: CM20099-v03

Original issue date: 23 July 2015

Version date: 10 November 2022

Review date: 09 November 2025

1 CERTIFICATE HOLDER DETAILS

Kingspan Insulation Pty Ltd

25 Oherns Road, Somerton VIC 3062

Tel: 1300 247 235 Fax: 1300 247 329

info@kingspaninsulation.com.au

<https://www.kingspan.com/nz/en>



2 PRODUCT CERTIFICATION BODY



SAI Global Certification Services Pty Limited

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

Operating as "Intertek & Intertek SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

650 Lorimer Street Port, Melbourne, VIC 3207

www.saiglobal.com

The complaints process for this certificate
can be found here:

<https://saiassurance.com.au/complaints-appeals/>

3 DESCRIPTION OF BUILDING METHOD OR PRODUCT

Kooltherm® K12 Framing Board is a fibre-free rigid thermoset phenolic insulation, faced on both sides with a low emissivity composite foil autohesively bonded to the insulation core.

Continuation of description can be found in item 11 – Supporting Information about Description.

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

- K12

4 INTENDED USE OF BUILDING METHOD OR PRODUCT

Kooltherm® K12 Framing Board is a thermal insulation for use behind wall linings over Concrete or Block construction.

Continuation of intended use can be found in item 12 – Supporting Information about Intended use.

5 NEW ZEALAND BUILDING CODE PROVISIONS

Kooltherm® K12 Framing Board

Clause **B1 – Structure** – B1.3.1, B1.3.2, B1.3.3(a), B1.3.4

Clause **B2 – Durability** – B2.3.1(a)

Clause **E3 – Internal Moisture** – E3.3.1 (contributes to)

Clause **F2 – Hazardous Building Materials** – F2.3.1

Clause **H1 – Energy Efficiency** – H1.3.1, (contributes to) H1.3.2E (contributes to)

How the building method or product complies or contributes can be found in item 9 – Basis for Certification.

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



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CERTIFICATE V2



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6 CONDITIONS AND LIMITATIONS OF USE

1. Kingspan Kooltherm® K12 Framing Board, must be installed in accordance with the manufacture's installation instructions as per below;
 - a. Kingspan Kooltherm® K12 Framing Board – Insulation for use behind wall lining – K12 KIAU0004 Issue 11, Feb 2021

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

Reference Documents:

- Kooltherm® K12 Framing Board – Insulation for use behind wall lining – K12 KIAU0004 Issue 11, Feb 2021

7 HEALTH AND SAFETY INFORMATION

Reference Documents:

- Kooltherm® Product Safety information – Issue 9, March 2017 - Contact certificate holder to obtain a copy

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

Calin Moldovean
President, Business Assurance
SAI Global Assurance



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CERTIFICATE V2

9 BASIS FOR CERTIFICATION

- Clause **B1 Structure** – by testing and comparison with provisions of Verification Method B1/VM1 and Acceptable Solution B1/AS1
- Clause **B2 Durability** – by testing and comparison with provisions of Verification Method B2/VM1
- Clause **E3 Internal Moisture** – by comparison with provisions of Acceptable Solution E3/AS1
- Clause **F2 Hazardous Building Materials** – by analysis by testing
- Clause **H1 Energy Efficiency** – by testing and comparison with acceptable solutions H1/AS1 and H1/AS2 and verification methods H1/VM1 and H1/VM2

10 SUPPORTING DOCUMENTATION FOR CERTIFICATION

Building regulations 1992 (SR 1992/150) – Version as at 15 November 2021.

- **Acceptable Solutions and Verification Methods for New Zealand Building Code:**
 - a. **Clause B1 Structure** – Acceptable Solutions and Verification Methods For New Zealand Building Code Clause B1 Structure. Amendment 20 (29 November 2021).
 - b. **Clause B2 Durability** – Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability. Amendment 12 (28 November 2019)
 - c. **H1 Energy Efficiency** - Acceptable Solution H1/AS1, Energy efficiency for all housing, and buildings up to 300 m2, Fifth edition, Amendment 1, 4 August 2022
 - d. **H1 Energy Efficiency** - Acceptable Solution H1/AS2, Energy efficiency for buildings greater than 300 m2, First edition, Amendment 1, 4 August 2022
 - e. **H1 Energy Efficiency** - Verification Method H1/VM1, Energy efficiency for all housing, and buildings up to 300 m2, Fifth edition, 29 Amendment 1, 4 August 2022
 - f. **H1 Energy Efficiency** - Verification Method H1/VM2, Energy efficiency for buildings greater than 300 m2, First Edition Amendment 1, 4 August 2022

Test Reports

1. **AWTA Product Testing (Australian Wool Testing Authority) NATA Accreditation No. 1356 – Test Report 18-005875 (Dated 09/10/2018).** Tested to ASTM C518-2010 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus for Kingspan Kooltherm K8 Cavity board / K12 Framing board (30mm)
2. **AWTA Product Testing (Australian Wool Testing Authority) NATA Accreditation No. 1356 – Test Report 18-005878 (Dated 15/10/2018).** Tested to ASTM C518-2010 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus for Kingspan Kooltherm K8 Cavity board / K12 Framing board (40mm).
3. **AWTA Product Testing (Australian Wool Testing Authority) NATA Accreditation No. 1356 – Test Report 20-000202 Dated 17/02/2020.** Tested to ASTM C518-2010 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus for Kingspan Kooltherm K12 (25mm).



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4. **OTM (OTM Solutions Pte Ltd) SAC accreditation No. LA-2016-0610-G – Test Report OTM2109035 (Dated 30/09/2021).** Tested to ASTM C518-2010 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus for Kingspan Kooltherm K8 Cavity board / K12 Framing board (50mm).
5. **SGS Analytical Report – Reference No. PE110195 R0 (Dated 26 Aug 2016) Nata Accreditation No. 2562 – Fibre ID in bulk materials.** AS 4964 provides the basis for this document.
6. **Kooltherm® Product Safety information – Issue 9, March 2017**
7. **OTM Solutions, Material Surface Emittance Test Report. Report No. OTM2101019 (dated 23/01/2021) -** This report provides the results to testing ASTM C1371-15 (Standard test method for determination of emittance of materials near room temperature using portable emissometers) as identified in AS4859.1:2018, for Kingspan Kooltherm K8 Cavity Board / Kingspan Kooltherm K12 Framing Board Foil.

SUPPORTING INFORMATION

11 SUPPORTING INFORMATION ABOUT DESCRIPTION

The K12 Framing Board consists of three layers. The facing on both sides is a low emissivity composite foil autohesively bonded to the insulation core during manufacture. The core is a fibre free rigid thermoset phenolic insulation.

Components:

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

- Kooltherm K12 Framing Board

12 SUPPORTING INFORMATION ABOUT INTENDED USE

Kooltherm® K12 Framing Board is a thermal insulation for use behind wall linings over Concrete or Block construction.

Referenced Documents:

- Kooltherm® K12 Framing Board – Insulation for use behind wall lining – K12 KIAU0004 Issue 11, Feb 2021

13 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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