

# CERTIFICATE OF CONFORMITY

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

## Jet Stream® MAX Ceiling Insulation



Page 1 of 2



<b>Product Description</b>
Jet Stream® MAX Ceiling Insulation is a non-bonded, granulated glasswool fibre material blown on-site in loose form as insulation into open ceiling spaces to a density of 8-9 kg/m <sup>3</sup> .
<b>Product purpose and use</b>
Jet Stream® MAX Ceiling Insulation has been assessed for use as a thermal insulation material for buildings within the following scope: <ul style="list-style-type: none"> <li>▣ Ceiling spaces in pitched roofs.</li> </ul>
<b>Certificate holder</b>
Knauf Insulation Pty Ltd Unit 2, 44 Borthwick Avenue, Murarrie, QLD, 4172, Web: <a href="http://www.knaufinsulation.com.au">www.knaufinsulation.com.au</a> , Tel: +61 7 3393 7300
<b>Compliance with the New Zealand Building Code (NZBC):</b>
<b>Clause B2 DURABILITY:</b> Performance B2.3.1(a) not less than 50 years, and B2.3.2. Jet Stream® MAX Ceiling Insulation will meet these requirements.
<b>Clause E3 INTERNAL MOISTURE:</b> Performance E3.3.1. Jet Stream® MAX Ceiling Insulation will contribute to meeting this requirement.
<b>Clause F2 HAZARDOUS BUILDING MATERIALS:</b> Performance F2.3.1. Jet Stream® MAX Ceiling Insulation meets this requirement and will not present a health hazard to people.
<b>Clause H1 ENERGY EFFICIENCY:</b> Performance H1.3.1(a) and H1.3.2 E. Jet Stream® MAX Ceiling Insulation will contribute to meeting these requirements.

<b>CodeMark Certification Body</b>		09/05/2016		09/05/2019	GM-CM-30068-RevA
Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia Tel: +61 (0)2 9886 0222 <a href="http://www.Global-Mark.com.au">www.Global-Mark.com.au</a>	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.

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Page 2 of 2



### Subject to the following conditions and limitations:

1. Certificate holder will notify Global-Mark Pty Ltd in accordance with Regulation 15 of the Building (Product Certification) Regulations 2008.
2. Product specification and incorporation of Jet Stream® MAX Ceiling Insulation into the building design shall be carried out by a designer / architect / engineer or a building professional who:
  - Is qualified to design and specify thermal solutions,
  - Has ready access to the technical specifications including the manufacturer's publications and standards referenced in this certificate.
3. The potential impact on the compliance of an existing building with other requirements of the Building Code is outside the scope of this certificate.
4. Specification of the product shall be in accordance with the following Knauf publications:
  - Jet Stream MAX – Ceiling Application Guidelines, August 2015, Ref.: KIAN0915233BR.
  - Jet Stream MAX – Blow-in Glasswool Ceiling Insulation Datasheet, Ref.: KIAN0815220D
5. Installation shall be carried out by a Knauf Insulation accredited installer in accordance with Knauf Insulation Jet Stream MAX – Ceiling Application Guidelines, August 2015, Ref.: KIAN0915233BR to meet the stated thermal performance rating of the insulation, and NZS 4246:2006 (incorporating Amendment No.1).
6. The product has a thermal conductivity of 0.049 W/mK at an average density of 8.5 kg/m<sup>3</sup> and thermal resistance (R-value) as specified in Table 1, which contributes to the overall thermal resistance value of roof and ceiling construction. The designer is responsible for determining the total thermal resistance (R<sub>T</sub>) of the roof and ceiling system and its contribution to the overall energy efficiency of the building into which the insulation is installed.

**Table 1: Jet Stream® MAX Ceiling Insulation R-value in Relation to Thickness**

Nominal Thickness (mm)	R-Value (m <sup>2</sup> .°C/W)
50	1.0
75	1.5
100	2.0
125	2.5
160	3.2

Nominal Thickness (mm)	R-Value (m <sup>2</sup> .°C/W)
180	3.6
205	4.1
255	5.2
310	6.3

7. The requirements of AS/NZS 4859.1:2002 (incorporating Amendment No.1) and NZS 4246:2006 (incorporating Amendment No.1) must be maintained.
8. Installation shall be carried out only after the building is weatherproof, and after the materials within the building have dried to a sufficient degree that moisture is not transported into the insulation material and in accordance with the requirements of NZBC Acceptable Solution E2/AS1 Paragraph 10.2 (a), or the moisture content as required by the lining manufacturer.
9. The insulation material must be isolated from recessed downlights in ceiling applications by methods as specified in NZS 4246:2006 (incorporating Amendment No. 1).
10. Separation or protection must be provided to Jet Stream® MAX from heat sources such as fire places, heating appliances, flues, chimneys and downlights. Refer to Part 7 of NZBC Acceptable Solutions C/AS1 - C/AS6 and NZBC Verification Method C/VM1.
11. Insulation that has become damp must be removed and the cause of the dampness repaired. Ceiling spaces must be clean and dry before fitting new insulation of an equivalent thermal rating.
12. Knauf Insulation Pty Ltd Approved Installers are responsible for the handling and storage which must be completed in accordance with the Jet Stream® MAX procedure documents.
13. Jet Stream® MAX must be stored under cover and in dry conditions.