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JET STREAM® MAX (CEILING)

October 2019

APPLICATIONS

DESCRIPTION

Jet Stream® MAX is an unbonded, Glasswool insulation designed with optimal thermal properties and excellent coverage and blowing characteristics. Jet Stream® MAX can be installed into both new build and existing ceilings. It can be used to form the total thermal solution or as an additional thermal layer to existing insulation. Jet Stream® MAX should only be installed by Approved Installers to ensure the highest quality and installed performance.

PERFORMANCE

Thermal	AS/NZS 4859.1:2002.
Fire Hazard Properties	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 1.
Water Vapour Absorption	5% maximum by weight.
Microbial Growth	Does not support microbial growth.
Corrosion	No greater than sterile cotton.
Critical Radiant Flux	Greater than 0.12 W/cm^2.
Combustibility	Non-combustible (AS 1530.1-1994).

BENEFITS

- ✔ New and retrofit applications
- ✔ Fills all gaps and voids, creating a complete thermal barrier against heat loss or gain
- ✔ Excellent acoustic performance
- ✔ High thermal performance
- ✔ Made with up to 80% post-consumer recycled glass
- ✔ Fast, easy installation by Approved Installers.

CERTIFICATION

CodeMark 30065 CodeMark 30068

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ADDITIONAL INFORMATION

Specification Guide

The insulation shall be Jet Stream® MAX insulation 0.051 W/mK (AU), 0.049 W/mK (NZ), 8-9kg/m^3, CodeMark Certified to meet the provisions of the BCA. The product will be non-combustible, CFC/HCFC free, zero ODP and GWP, Glasswool insulation with high post-consumer recycled glass content. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

Specification Compliance

- ASTM and AS/NZS 4859.1 compliance.
- Fire Resistance (AS1530.1:1994 - non-combustible).
- US GREENGUARD Gold Certified and verified to be formaldehyde free.
- Jet Stream® MAX is manufactured with up to 80% post-consumer glass content and undergoes UL Environment verification every six months.

Thermal performance

Jet Stream® MAX provides excellent thermal performance due to a low thermal conductivity and a complete and consistent installation. Jet Stream® MAX provides a choice of R-Values based on the installed thickness and installed weight per square metre. The stated thermal resistance (R-Value) is provided by installing the required density at the thickness (per the manufacturer's instructions). Failure to install less than the required density and thickness will result in lower insulation R-Values. Jet Stream® MAX is designed to be installed at a target density of 8-9kg/m^3. Refer to the thermal performance table for more details. Jet Stream® MAX will achieve R-Values that with the use of NZS 4214 are able to meet the minimum requirements of NZS 4218 and the Energy Efficiency requirements of BCA for ceilings.

Acoustic performance

Improves sound transmission class (STC) by between 4 and 10 points.

Sustainable

- Each bag contains a high percentage of recycled glass content.
- Carbon negative. When used as thermal insulation, Jet Stream® MAX will recover the energy used to produce it within days of installation. It will continue to reduce carbon generation for as long as it is in place.

Installation

- Fast and easy to install with the added confidence of an Approved Installer.
- Easily fills hard to reach and low pitch roofs.

Durability

- Non-combustible, non-corrosive.
- Will not rot, mildew or deteriorate.
- Will not sustain vermin.
- Will not settle.
- Consistent, reliable performance.
- Performs for the lifetime of the building.

Energy conservation

- Reduces energy usage and utility bills for heating and air conditioning.

Engineered Blow-in Insulation System

Jet Stream® MAX is an engineered solution which incorporates a system approach to the insulation of your ceiling space. A range of accessories are supplied with the System to provide a range of solutions and performance checks. Backed by the Approved Installer network, to provide confidence in the performance of the product.

Equipment required

To achieve the required R-Value, this product must be installed using an approved blowing machine and equipment. Installation must be complete inline with the system guidelines and by an Approved Installer.

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ADDITONAL INFORMATION (CONT.)

Packaging

Jet Stream® MAX is packaged in a strong, poly bag that offers excellent protection from abuse, dust and moisture. Knauf Insulation packages stack without slipping and are easy to handle and store.

Australia National Construction Code Series (NCC 2016) Building Code of Australia (BCA)

- BCA 2016 Volume 1 – Class 2 to 9 Buildings.
- Section J - Energy Efficiency: Performance Requirement JP1. Jet Stream® MAX will satisfy this requirement.
- BCA 2016 Volume 2 – Class 1 and Class 10 Buildings.
- Part 2.6 Energy Efficiency: Performance Requirement P2.6.1. Jet Stream® MAX will satisfy this requirement.
- Jet Stream® MAX thermal resistance has been determined by AS/NZS4859.1.
- Jet Stream® MAX is an acceptable solution in terms of the Australian Building Code.

New Zealand Building Code:

- Clause B2 DURABILITY: Performance B2,3,1(b) 15 years. Jet Stream® MAX will meet this requirement.
- Clause E3 INTERNAL MOISTURE: Performance E3.3.1. Jet Stream® MAX will contribute to meeting this requirement.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Jet Stream® MAX meets this requirement and will not present a health hazard to people.
- Clause H1 ENERGY EFFICIENCY: Performance H1.3.1(a) and H1.3.2 E. Jet Stream® MAX will contribute to meeting these requirements.
- Jet Stream® MAX thermal resistance has been determined by AS/NZS 4859.1.
- Jet Stream® MAX is an acceptable solution in terms of the New Zealand Building Code.

SPECIFICATIONS

Nominal Thickness (mm)	Australian R-Value (m^2K/W)*	Thermal conductivity (W/mK)	Nominal Thickness (mm)	New Zealand R-Value (m^2K/W)	Thermal conductivity (W/mK)
160	3.1	0.051	160	3.2	0.049
180	3.5	0.051	180	3.6	0.049
205	4.0	0.051	205	4.1	0.049
255	5.0	0.051	255	5.2	0.049
310	6.0	0.051	310	6.3	0.049
360	7.0	0.051	360	7.3	0.049
410	8.0	0.051	410	8.4	0.049
460	9.0	0.051	460	9.4	0.049
510	10.0	0.051	510	10.4	0.049

Installed density (8-9kg/m^3)

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