



Datasheet

August 2015

Jet Stream[®] MAX

Blow-in Glasswool Insulation

Description

Jet Stream MAX is an unbonded, virgin glasswool insulation designed with optimal thermal properties and excellent coverage and blowing characteristics.

Application

Jet Stream MAX is installed in closed cavity applications with a BIB (Blow-in-Blanket) System. Applications include walls, skillion roofs, mid-floors, and under floors.

Jet Stream MAX should only be installed by Approved Installers to ensure the highest quality installed performance.

Features

Excellent thermal performance

- Fills all gaps and voids, creating a thermal barrier against outside air and better temperature control.

Sustainable

- Each bag contains the equivalent of over 45 recycled glass bottles, with up to 80% recycled glass content.

Installation

- Fast, easy installation by Approved Installers.

Performance

Thermal

Jet Stream MAX has a thermal conductivity of 0.033 W/mK (AU), 0.032 W/mK (NZ) when installed at a density of 28kg/m³.

Benefits

- Maximum - performance in walls, mid-floor, underfloor and cathedral/skillion roof cavities.
- Convenient. One product, one inventory, multiple applications.
- Sustainable. Up to 80% recycled glass content.
- Each bag contains the equivalent of over 45 recycled glass bottles.
- Fast, easy installation by Approved Installers.



CODEMARK™

AU - GM-CM30066 RevA1
NZ - GM-CM30067 RevA

Jet Stream® MAX

Durability

- Non-combustible, non-corrosive.
- Will not rot, mildew or deteriorate.

Benefits

- Resists heat flow with an R-Value of:

Walls			
Nominal thicknesses (mm)	AU R-Value (m ² K/W)*	NZ R-Value (m ² K/W)**	Coverage per bag (m ²)
70	1.8	2.1	8.1
75	2.2	2.3	7.6
90	2.7	2.8	6.1
100	3.0	3.1	5.5
140	4.2	4.3	3.9

*Thermal conductivity - 0.033 W/mK

**Thermal conductivity - 0.032 W/mK

Floors and Skillion Roofs (BIB Application)			
Nominal thicknesses (mm)	AU R-value (m ² K/W)*	NZ R-value (m ² K/W)**	Coverage per bag (m ²)
100	3.0	3.1	6.3
140	4.2	4.3	4.2
190	5.7	5.9	3.3
240	7.2	7.5	2.6

*Thermal conductivity - 0.034 W/mK

**Thermal conductivity - 0.038 W/mK

Bag net weight · 15.9kg (35lbs)

'R-Value' means resistance to heat flow. The higher the R-Value, the better the thermal performance. To get the marked R-Value, it is essential that this insulation be installed properly.

Convenient

- One product, one inventory, multiple applications.

Noise reduction

- Jet Stream MAX reduces sound passing through construction cavities.

Energy conservation

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

Thermal performance

Jet Stream MAX provides you with a choice of R-Values based on the installed thickness and installed weight per square metre. The table above shows the minimum requirements for obtaining the desired R-Value.

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 minimum density of 28kg/m³. Jet Stream MAX will achieve a thermal conductivity of 0.032 W/mK (NZ) and 0.033W/mK (AU). When installed at various thicknesses Jet Stream MAX will achieve R-Values that with NZS 4214 are able to meet the minimum requirements of NZS 4218 and the Energy Efficiency requirements of BCA for walls, skillion roofs and underfloors.



Specification Guide

The insulation shall be Jet Stream MAX Insulation 0.033 W/mK (AU), 0.032 W/mK (NZ), 28kg/m³, 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.

Jet Stream® MAX

Jet Stream MAX is not designed for mixing with other products, adhesives or binder systems as these may affect its thermal performance and is not recommended by the manufacturer.

Gaps, voids and penetrations

Jet Stream MAX fills all gaps and voids around service penetrations such as water pipes and electric wiring and any other obstructions or unusual design details, ensuring thermal and acoustic performance is created. Jet Stream MAX allows quicker and more efficient filling of wide cavities where multiple layers of conventional insulation would normally be installed. Jet Stream MAX saves installation time by minimising the steps needed to fully insulate tight corners and hard to reach areas.

Specification compliance

- CodeMark Certified.
- AS/NZS 4859.1 thermal compliance.
- US GREENGUARD Gold Certified and verified to be formaldehyde free.

Jet Stream MAX is manufactured with up to 80% recycled glass content and undergoes UL Environment verification every six months.

Technical data

Fire Hazard Properties

- Ignitability: 0
- Spread of flame: 0
- Heat evolved: 0
- Smoke developed: 1

(When tested in accordance to AS/NZS 1530.3:1999).

Critical radiant flux (ASTM E 970)

- Greater than 0.12 W/cm².

Moisture vapour sorption (ASTM C 1104)

- 5% maximum by weight.

Corrosion (ASTM C 764)

- No greater than sterile cotton.

Microbial growth (ASTM C 1338)

- Does not support microbial growth.

Non-combustibility

- Non-combustible (AS 1530.1-1994).
- Nil sustained flaming (ISO 1182).

Equipment required

To achieve the labelled R-Value, this product must be applied with a pneumatic blowing machine and a corrugated hose with a minimum 5mm internal corrugation, a minimum length of 45m and a diameter of at least 60mm. Coils in the hose should not be less than 10m in diameter.

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.



Jet Stream® MAX

Exposure to water or moisture

Insulation does not provide thermal benefit if wet. Glasswool insulation will not sustain mould growth. If the material is wet it should be replaced.

Jet Stream MAX insulation satisfies the most stringent requirements for bio-solubility and will meet or contribute to meeting the following provisions of the:

Australia National Construction Code Series (NCC 2015) Building Code of Australia (BCA)

- CP1/CP2/CP4 and P2.3.1 – Fire Resistance.
- FP1.4 / P2.2 and FP 1.5 / 2.2.3 - Weatherproofing and Dampness.
- FP5.5 / FP5.3 and P2.4.6 – Sound Insulation.
- GP2.1 and P2.3.3 – Heating Appliances.
- JP1 and P2.6.1 – Energy Efficiency.
- Jet Stream MAX thermal resistance has been determined by AS/NZS 4859.1. and will contribute to meeting these requirements.

New Zealand Building Code:

- Clause B2 DURABILITY: Performance B2.3.1(a) not less than 50 years and B2,3,1(b) 15 years. Jet Stream MAX will meet these 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.



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