

## JET STREAM® MAX (WALLS, FLOORS AND SKILLION ROOFS)

July 2017



### APPLICATIONS



### DESCRIPTION

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

### PERFORMANCE

#### Thermal

Thermal conductivity:

0.033 W/mK (AU), 0.032 W/mK (NZ) when installed at a density of 28kg/m<sup>3</sup>.

#### Fire Hazard Properties (AS/NZS 1530.3:1999)

Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 1

#### Water Vapour Absorption (ASTM C 1104)

5% maximum by weight

#### Microbial Growth (ASTM C 1338)

Does not support microbial growth

#### Corrosion (ASTM C 764)

No greater than sterile cotton

#### Critical radiant flux (ASTM E 970)

Greater than 0.12 W/cm<sup>2</sup>.

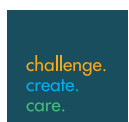
#### Combustibility

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

### BENEFITS

- ✓ Maximum performance in walls, mid-floor, underfloor and cathedral/skillion roof cavities.
- ✓ Convenient - one product, one inventory, multiple applications.
- ✓ Jet Stream MAX reduces sound passing through construction cavities.
- ✓ Reduces fuel usage and utility bills for heating and air conditioning.
- ✓ Sustainable - up to to 80% recycled glass content.
- ✓ Fast, easy installation by Approved Installers.

### CERTIFICATION



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### ADDITIONAL INFORMATION

#### Specification Guide

The insulation shall be Jet Stream MAX Insulation 0.033 W/mK (AU), 0.032 W/mK (NZ), 28kg/m<sup>3</sup>, 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

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.

#### 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 28.8kg/m<sup>3</sup>. 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.

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.

#### 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.

#### 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.

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### ADDITIONAL INFORMATION (CONT.)

#### 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.

### SPECIFICATIONS

	Nominal Thickness (mm)	Australian R-Value (m <sup>2</sup> K/W)*	New Zealand R-Value (m <sup>2</sup> K/W)**	Coverage per bag (m <sup>2</sup> )
WALLS	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

	Nominal Thickness (mm)	Australian R-Value (m <sup>2</sup> K/W)*	New Zealand R-Value (m <sup>2</sup> K/W)**	Coverage per bag (m <sup>2</sup> )
FLOORS AND SKILLION ROOFS (BIB APPLICATION)	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

#### Knauf Insulation Ltd

1/44 Borthwick Avenue,  
Murrarie, Queensland, 4172, Australia

Building 1, Unit 2, 15 Accent Dr  
East Tamaki, Auckland, 2013, New Zealand

Customer Service: AUS: +61 7 3393 7300  
NZL: 0800 562 834

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