

## CLIMACOUSTIC® HVAC/OEM ROLL (UNFACED)

May 2018



with **ECOSE** TECHNOLOGY

### APPLICATION



### DESCRIPTION

Climacoustic® HVAC/OEM roll (unfaced) is used as external insulation on commercial and residential heating or air conditioning ducts. It is suitable for the exterior of rectangular or round sheet metal ducts and spaces or surfaces where temperature and condensation must be controlled. Climacoustic® HVAC/OEM roll (unfaced) is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

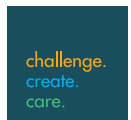
### PERFORMANCE

<b>Temperature Range</b>	Operating temperature up to 175°C (unfaced).
<b>Fire Hazard Properties</b>	Ignitability: 0, Spread of flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.
<b>Moisture Absorption</b>	Less than 0.2% by volume when left in an atmosphere of 50°C and 95% relative humidity for four days.
<b>Combustibility</b>	Non-combustible.
<b>Thermal Compliance</b>	AS/NZS 4859.1 Materials for the thermal insulation of buildings.
<b>Corrosion Resistance</b>	pH 7.5-8.0: Incapable of corroding steel, aluminium or copper.

### BENEFITS

- ✓ High thermal performance
- ✓ Sound absorbing
- ✓ Non-combustible
- ✓ No added formaldehyde
- ✓ Odourless
- ✓ Superior Handling
  - Consistent quality materials cut easily and installs fast.
  - Highly resilient insulation recovers quickly to full thickness.

### CERTIFICATION



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### ADDITIONAL INFORMATION

#### Specification Guide

The HVAC insulation shall be Climacoustic® HVAC/OEM roll \*kg/m<sup>3</sup>, \*mm thick, AS/NZS 4859.1:2002 compliant. The product will be non-combustible, CFC/HCFC free, zero ODP and GWP, glasswool insulation with high post-consumer recycled glass content and with ECOSE® Technology. 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.

\*architect to insert details of products used.

#### Bio-solubility

The formulation used for Climacoustic® insulation has been independently assessed to meet the requirements of the stringent Note Q standard (and is therefore consistent with the highest Australian and New Zealand industry standards), and also assessed by Knauf Insulation against the criteria of the Australian Safety and Compensation Council ASCC Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008 3rd Edition]. As a result of this assessment, Climacoustic® insulation is not classified as hazardous according to the NOHSC criteria.

#### Superior Handling

- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.

#### Durability

- Climacoustic® HVAC/OEM roll is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

#### Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission.

#### Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation supports a professional network of distributors and re-sellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

#### Storage

- Protect material from water damage or other abuse. Pallets are not designed for outside storage.

#### Preparation

- Install Climacoustic® HVAC/OEM roll over clean, dry sheet metal ducts.
- All sheet metal joints and seams must be sealed to prevent air leakage from the duct.

#### Application

- Install Climacoustic® HVAC/OEM roll to obtain specified R-Value using a maximum of 25% compression.
- Butt all insulation joints firmly together.
- For rectangular ducts over 600mm wide, secure the insulation to the bottom side of the duct with mechanical fasteners spaced on 450mm centres to reduce sag. Care should be taken to avoid over compressing the insulation with the retaining washer.
- It is neither necessary nor desirable to adhere duct wrap to duct surfaces with adhesive.
- Climacoustic® HVAC/OEM roll should be overlapped with a minimum of 50mm and fastened with 100mm to 150mm nails or skewers placed 100mm apart, or secured with a wire or banding system. Care must be taken to avoid damaging the duct wrap.

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### SPECIFICATIONS

Product Code	R-Value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Rolls per MasterBag
TBA	1.5	32	50	1200	15000	3
TBA	2.3	32	75	1200	10000	3
TBA	1.0	24	38	1200	18000	3
TBA	1.2	24	41	1200	18000	3
TBA	1.5	24	50	1200	18000	3
TBA	2.0	24	75	1200	10000	3

### SOUND ABSORPTION

Thickness (mm)	Density (kg/m <sup>3</sup> )	Frequency						
		125	250	500	1000	2000	4000	NRC
50	32	0.17	0.49	0.93	1.03	1.03	0.99	0.85
75	32	0.26	0.62	1.05	1.07	1.04	1.05	0.95
50	24	0.31	0.57	0.96	1.04	1.03	1.03	0.90
75	24	0.47	0.92	1.17	1.06	1.06	1.04	1.05

Based on testing to ASTM 423, Type A Mounting



Climacoustic® products made with ECOSE® Technology benefit from a formaldehyde-free binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based materials instead of petro-based chemicals. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Climacoustic® products made with ECOSE® Technology contain no added dyes or artificial colours.

### Knauf Insulation Ltd

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