



October 2015

## Climacoustic® HVAC/OEM Roll (Unfaced)

### Description

Climacoustic HVAC/OEM Roll is a thermal and acoustical insulation blanket made from highly resilient, inorganic glass fibres bonded with ECOSE® Technology, a revolutionary binder based on rapidly renewable materials instead of petro-based chemicals. ECOSE Technology reduces binder embodied energy and contains no added phenol, formaldehyde, acrylics or artificial colours.

### Application

Climacoustic HVAC/OEM Roll 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.

### Technical Data

#### Temperature Range (ASTM C 411)

Operating temperature up to 175°C (unfaced).

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

- Ignitability: 0, Spread of flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.

#### Combustibility (AS 1530.1)

- Non-combustible

#### Moisture Absorption

Less than 0.2% by volume when left in an atmosphere of 50°C and 95% relative humidity for four days.

#### Thermal Compliance

Complies with AS/NZS 4859.1 Materials for the thermal insulation of buildings.

#### Corrosion Resistance (ASTM C 665)

pH 7.5-8.0: Incapable of corroding steel, aluminium or copper.

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### Bio-solubility

The formulation used for Earthwool 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, Earthwool insulation is not classified as hazardous according to the NOHSC criteria.

### Features

#### 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.

### Benefits

#### 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.

### Application and Specification Guidelines

#### 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.

Knauf Insulation's Climacoustic products with ECOSE® Technology benefit from a formaldehyde-free binder based on rapidly renewable materials instead of petro-based chemicals which is up to 70% less energy intensive. 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 dye or artificial colours – the colour is completely natural.

### 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.

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### 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.

SAP Code	Density (kg/m <sup>3</sup> )	R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Width (mm)	Length (mm)	Rolls/MasterBag
TBA	32	1.6	50	1200	15000	3
TBA	32	2.3	75	1200	10000	3
TBA	24	1.0	38	1200	18000	3
TBA	24	1.2	41	1200	18000	3
TBA	24	1.5	50	1200	18000	3
TBA	24	2.0	75	1200	10000	3

### Sound Absorption

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

ASTM C 423, Type A Mounting

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