

## CLIMACOUSTIC® INTERNAL DUCT LINER ROLL (FACED)

May 2018



### APPLICATION



### DESCRIPTION

Climacoustic® Internal Duct Liner roll (faced) with ECOSE® Technology is specifically designed as an interior insulation material for sheet metal ducts used in heating, ventilating and air conditioning. It provides an optimum combination of efficient sound absorption, low thermal conductivity and minimal airstream surface friction. Climacoustic® Internal Duct Liner roll (faced) is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.

### PERFORMANCE

#### Temperature Range

Operating temperature up to 120°C.

#### Resists Microbial Growth

Airstream surface mat facing is treated with an anti-microbial agent to aid in the prevention of fungal and bacterial growth. Does not promote or support the growth of mould, fungi or bacteria.

#### Water Vapour Absorption

Water vapour resistivity:

Less than 3% by weight.

#### Corrosiveness

Will not accelerate corrosion of aluminum, steel or copper.

#### Corrosion

Will not accelerate corrosion of aluminum, steel or copper.

#### Air Velocity

Maximum 1800mpm. Tested to 4500mpm.

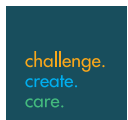
#### Water Repellency

≥ 4.

### 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 insulation shall be Climacoustic® Internal Duct Liner roll \*kg/m<sup>3</sup>, \*mm thick, AS/NZS 4859.1:2002 compliant. The product will be non-combustible, CFC/HCF 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® Internal Duct Liner 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

- Inside storage is recommended.

#### Fabrication and Application

- Liner shall be folded and compressed in the corners of rectangular duct sections or shall be cut and fit to assure lapped, compressed joints. Longitudinal joints in duct liner should not occur except at the corner of ducts. Longitudinal joints in liner shall be coated with adhesive. All damaged areas of the air stream surface shall be repaired with an adhesive which conforms to ASTM C 916.
- Liner should be adhered to the duct with 90% minimum area coverage of an adhesive which conforms to ASTM C 916.
- Mechanical fasteners should not compress the insulation more than 3mm, and shall be installed perpendicular to the duct surface.
- Metal nosings shall be securely installed over transversely oriented liner edges facing the airstream at fan discharge, at access doors and at any interval of lined duct preceded by unlined duct. In addition, where velocities exceed 1200mpm, metal nosing shall be used on upstream edges of liner at every transverse joint fabric and mastic prior to system startup.

#### Limitations

- Climacoustic® Internal Duct Liner roll should not be used in systems operating at velocities exceeding 1800mpm or at temperatures above 120°C.

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### SPECIFICATIONS

Product Code	R-Value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Length (mm)	Width (mm)	Area per pack (m <sup>2</sup> )
582416	TBA	32	50	10744	1380	14.83
582419	TBA	32	50	2300	1500	75.90
582420	TBA	32	75	2300	1000	51.75



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.

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