

## CLIMACOUSTIC® EXTERNAL DUCT WRAP (FACED)

May 2018



### APPLICATION



### DESCRIPTION

Climacoustic® External Duct wrap (faced) with ECOSE® Technology is used as external insulation on commercial or 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® External Duct wrap (faced) 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 temperatures up to 121°C.
<b>Water Vapour Permeance</b>	FSK and white PSK facings have maximum water vapour permeance of .02 perms.
<b>Corrosiveness</b>	Will not accelerate corrosion of aluminum, steel or copper.
<b>Corrosion</b>	The corrosion rate in mils/yr will not exceed that of the 5 ppm chloride solution.
<b>Resists Microbial Growth</b>	Does not promote or support the growth of mould, fungi or bacteria.
<b>Water Vapour Sorption</b>	Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% relative humidity.

### 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



## CLIMACOUSTIC® EXTERNAL DUCT WRAP (FACED)

May 2018

### ADDITIONAL INFORMATION

#### Specification Guide

The insulation shall be Climacoustic® External Duct wrap \*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® External Duct wrap 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. Cartons are not designed for outside storage. Vacuum packaged material can be stored outside if care is taken not to puncture the poly bag.

#### Preparation

- Install Climacoustic® External Duct wrap 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® External Duct wrap with facing to the outside to obtain specified R-Value using a maximum of 25% compression.
- Butt all insulation joints firmly together. Longitudinal seam of the vapour retarder must be overlapped a minimum of 50mm. A 50mm tab is provided for the circumferential seam and must be overlapped.
- Where vapour retarder performance is necessary, all penetrations, joints, seams and damage to the facing should be sealed with an FSK, PSK or foil tape or glass fabric and mastic prior to system start-up.
- Pressure sensitive tapes should be a minimum 75mm wide and be applied with moving pressure using an appropriate sealing tool. Staples should be outward clinch and placed approximately 150mm on centre.
- For rectangular ducts over 600mm wide, secure the insulation to the bottom side of the duct with mechanical fasteners spaced on 450mm centers to reduce sag. Care should be taken to avoid overcompressing the insulation with the retaining washer.
- It is neither necessary nor desirable to adhere duct wrap to duct surfaces with adhesive.

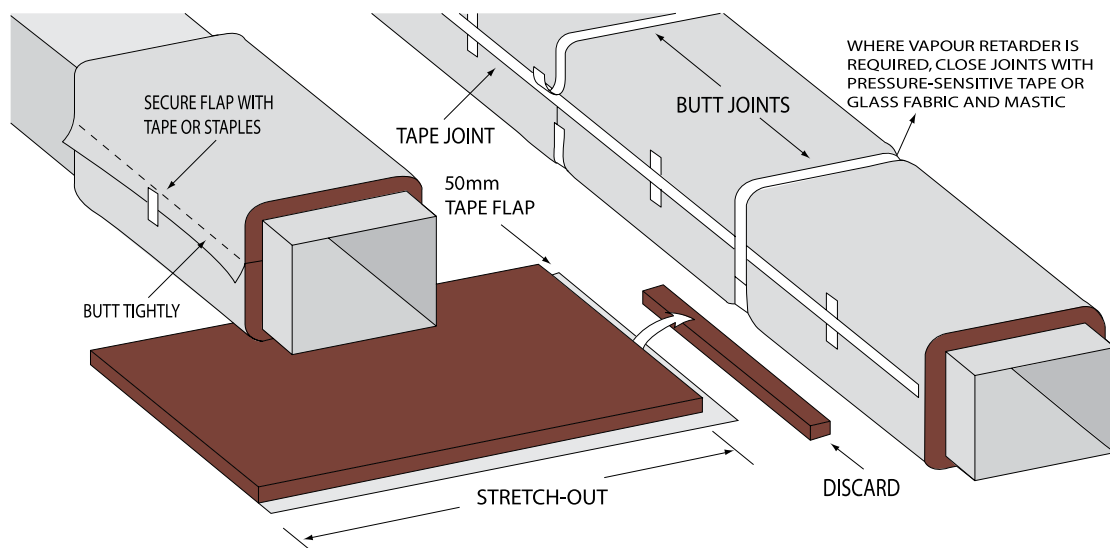
## CLIMACOUSTIC® EXTERNAL DUCT WRAP (FACED)

May 2018

### SPECIFICATIONS

Product Code	Density (kg/m <sup>3</sup> )	Thickness (mm)	Length (mm)	Width (mm)	Area per pack (m <sup>2</sup> )
TBA	24	50	14325	1380	19.77
TBA	24	75	9600	1380	13.25

### APPLICATION



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

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

Customer Service: Tel: +61 7 3393 7300

Fax: +61 7 3902 0613

Technical Advisory Centre: tech.au@knaufinsulation.com

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Extreme caution was observed when putting together and processing the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of possible errors pointed out.