

CLIMACOUSTIC® EXTERNAL DUCT WRAP (FACED)

August 2020



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.

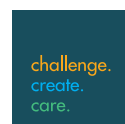
PERFORMANCE

Temperature Range	Operating temperatures up to 121°C.
Water Vapour Permeance	FSK and white PSK facings have maximum water vapour permeance of .02 perms.
Corrosiveness	Will not accelerate corrosion of aluminum, steel or copper.
Corrosion	The corrosion rate in mils/yr will not exceed that of the 5 ppm chloride solution.
Resists Microbial Growth	Does not promote or support the growth of mould, fungi or bacteria.
Water Vapour Sorption	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 (bulk insulation)
- ✓ 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® External Duct wrap *kg/m³, *mm thick, AS/NZS 4859.1 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.

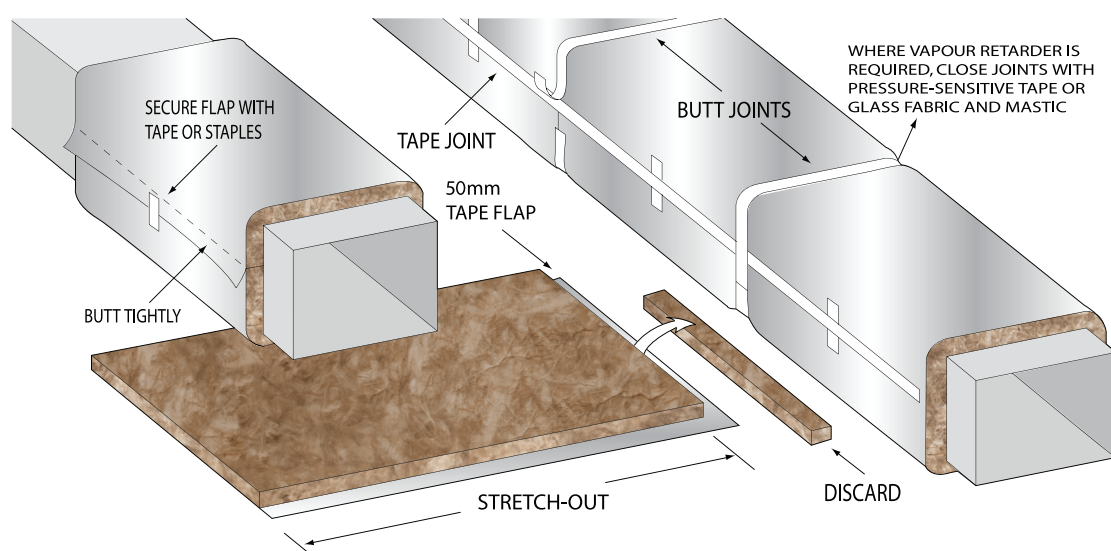
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SPECIFICATIONS

Product Code	Density (kg/m³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m²)
2400374	28	25	1200	18000	21.60
2400373	28	40	1200	12000	14.40
2400372	28	50	1200	9000	10.80

APPLICATION



Climacoustic® products made with ECOSE® Technology benefit from a no added formaldehyde 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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