

KNAUF INSULATION EXTERNAL DUCTWRAP

July 2025

Applications



Description

Knauf Insulation External DuctWrap with ECOSE® Technology is a glasswool insulation with aluminium reinforced PE foil laminate. It 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.

Knauf Insulation External DuctWrap (faced) is made using up to 80% recycled glass and with ECOSE Technology, a sustainable, plant-based binder that contains no added formaldehyde.

The super-soft and easy to handle benefits of Knauf Insulation have been further enhanced with TwinTech®. TwinTech heralds another advancement in insulation manufacture – the dual forming technique ensures there is a smooth finish on both sides of the insulation, which improves product handling and appearance.

Knauf Insulation glasswool is silicone treated with DriTherm® Technology, which provides improved moisture resistance.



Performance

Thermal performance: AS/NZS4859.1 (2018)	AS/NZS4859.1 (2018)		
Fire Hazard Properties (AS/NZ 1530.3)	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 0-1		
UL 181.11	Complies with the burn test requirements		
MATERIAL PROPERTY	RESULT	REQUIREMENT PER ASTM C665-17	PASS/FAIL
Water Vapour Sorption (Mass %) (ASTM C1104)*	3	≤5	Pass
Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*	40	>21	Pass
Corrosiveness - Copper (Rating scale 15-40) (ASTM C665)*	40	>21	Pass
Corrosiveness - Steel (ASTM C1617)*	≤5 ppm	≤5 ppm	Pass
Fungi Resistance (ASTM C1338)*	No growth	Growth ≤ Comparative	Pass
Water Vapour Absorption	Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% humidity		
Facing	<ul style="list-style-type: none"> Aluminium reinforced PE foil facing laminate. Vapour permeance: ≤0.002 µg/N-s (ASTM E96) Class 1 vapour barrier (ASTM E96) Emittance value: 0.03 (AS/NZS4201.5:2017) 		

*Test samples were 8kg/m² and 32kg/m² unfaced Knauf Insulation glasswool, with ECOSE binder.

Certification



Please scan the QR Code to view the complete list of certifications on our website.

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Benefits

- ✓ DriTherm® Technology - silicone treated glasswool for increased durability
- ✓ TwinTech® - smooth finish on both sides
- ✓ Sound absorbing
- ✓ ECOSE® Technology - no added formaldehyde
- ✓ Odourless
- ✓ High thermal performance
- ✓ Superior handling
 - Consistent quality materials, cuts easily and installs fast
 - Highly resilient insulation recovers quickly to full thickness

Specifications

Product Code	Density (kg/m ³)	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)
858976	28	0.7	25	1200	15000	18
858978	28	1.5	50	1200	7500	9
858980	28	2.2	75	1200	5000	6

All dimensions are nominal.

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Additional Information

Specification Guide

The insulation shall be Knauf Insulation External DuctWrap *kg/m³, *mm thick, AS/NZS 4859.1:2018 compliant. The product will be non-combustible, Red List Free as labelled by Declare, with high postconsumer 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 AS4254.2 and the manufacturers guidance.

*architect to insert details of products used.

Bio-solubility

The formulation used for Knauf Insulation External DuctWrap 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 NZ Work-Safe requirements. Knauf Insulation External DuctWrap is classified as a non-hazardous substance in line with NOHSC: 1088 3rd Edition.

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

- Knauf Insulation External DuctWrap is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Proven Performance

- Knauf Insulation glasswool is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation glasswool has excellent acoustical properties that reduce sound transmission.

Certification

Knauf Insulation glasswool is certified by Eurofins and EUCB. The Eurofins certification supports our performance claims for indoor Air Quality and VOC emissions. EUCB is an independent third party certification which provides confidence in the safety of the product fibres, inline with bio-solubility requirements. For more detail refer to the certificates available on our website.

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

- Knauf Insulation External DuctWrap has been designed to contribute to the construction of compliant external duct work designed and installed in accordance with AS4254.2.
- For application outside this scope please contact the manufacturer to confirm the products suitability.

Corrosion Testing

Corrosion testing evaluates whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products have been independently tested and demonstrate that they are non-corrosive ensuring reliable performance.



Knauf Insulation 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, plant-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. Knauf Insulation products made with ECOSE® Technology contain no added dyes or artificial colours.

Knauf Insulation Ltd

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