

KLIMA DUCT ROLL 33 ALUR

January 2018



with **ECOSE** TECHNOLOGY

APPLICATIONS



DESCRIPTION

Klima Duct Roll KDR 033 is a strong, flexible roll of non-combustible, mineral wool with an aluminium foil facing on one side. Faced with a reinforced aluminium foil, KDR offers total flexibility to aid installation around square, rectangular and circular duct work with maximum service temperatures of 230°C. Klima Duct Roll KDR 033 is non-combustible.

PERFORMANCE

Thermal

R-value: 0.73 to 1.46 m²K/W

Fire

Classification: EUROCLASS A2 to BS EN 13501-1.



Vapour resistivity

Water vapour resistivity: 5.00MNs/g.m.

BENEFITS

- ✓ Excellent thermal, acoustic and fire performance
- ✓ Easy to handle and install
- ✓ Foil facing provides a bright, washable surface and a high level of water vapour resistance


SPECIFICATIONS

Thickness (mm)	R-value (m ² K/W)		R-value (m ² K/W)		Length (m)	Width (mm)	Area per pack (m ²)
50	1.46		1.50		9.00	1200	10.80
40	1.17		1.20		12.00	1200	14.40
25	0.73		0.75		18.00	1200	21.60

All dimensions are nominal

Properties	Symbol	Description / Data			Unit	Test method/Standards
Maximum service temperature	ST (+)	230			°C	1200
Reaction to fire	---	A2				
Heat conductivity	ϑ	10	50	100	°C	1200
Air inside duct (ambient 20°C)	λ	0,033	0,041	0,050	W/(m·K)	1200

 South African R-values calculated assuming 23°C mean temperature.

 Euro R-values based on 10°C mean temperature, calculated according to requirements of EN 90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

CERTIFICATION



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ADDITIONAL INFORMATION

Durability

Klima Duct Roll 33 AluR is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Application

Klima Duct Roll KDR 033 is used for the thermal and acoustic insulation of all shapes of ductwork in heating, ventilating and airconditioning systems.

Standards

Klima Duct Roll 33 AluR is manufactured in accordance with BS EN 13162, EN 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Environmental

Klima Duct Roll 33 AluR represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Vapour resistivity

Klima Duct Roll 33 AluR offers negligible resistance to the passage of water vapour and has a vapour resistivity of 5.00MN/g.m.

Handling and storage

Klima Duct Roll 33 AluR is easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Klima Duct Roll 33 AluR should not be left permanently exposed to the elements.



Knauf Insulation mineral wool products made with ECOSE Technology® benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-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. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

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