

# THERMO-TEK LM PRO ALU



June 2023

with **ECOSE®**  
TECHNOLOGY



## DESCRIPTION

Thermo-teK LM Pro ALU is a Rock Mineral Wool mat with **very good thermal conductivity**, consisting of individual mineral wool strips (lamellas) that are bonded on one side to a tear-resistant, glass mesh reinforced aluminium foil which adds to an **optimal visual appearance of the application after installation**.

Knauf Insulation Thermo-teK LM Pro ALU is produced with **ECOSE® Technology**, a patented binder system, based entirely on renewable raw materials.

## PERFORMANCE

Max. service temperature	250 °C (EN ISO 18097)
Service temperature ALU facing	≤ 80 °C
Reaction to fire	A2-s1, d0 (EN 13501-1)
Apparent density	ca. 40 kg/m³ (EN ISO 29470)
Declaration of performance*	<a href="http://dopki.com/T4305HPCPR">http://dopki.com/T4305HPCPR</a>

\* for detailed information on DoP please check the product label

## APPLICATION

Defined Thermo-teK applications:

- Rectangular air ducts – outside insulation
- Circular air ducts – outside insulation
- Pipe insulation – heating, water supply
- Ducts & pipes in technical & acoustic rooms

The product is recommended for thermal, fire and sound insulation of defined Thermo-teK applications within technical insulation where:

- improved thermal conductivity is required
- a good visual appearance after installation is needed

## BENEFITS

- ✓ Very good thermal conductivity
- ✓ Optimal visual appearance on finished installations
- ✓ Tear-resistant, sturdy aluminium lamination
- ✓ One (universal) product for different applications, forms, diameters and sizes
- ✓ Easy to handle, cut and install around different shapes
- ✓ Elastic, strong and flexible
- ✓ ECOSE® Technology



## STANDARDS

Knauf Insulation products are produced according to four of the most important International Management Standards for sustainability ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 50001 (Energy Management) and ISO 45001 (Health and Safety Management), all certified by Tüv Nord.

## CERTIFICATES



challenge.  
create.  
care.

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## SPECIFICATIONS

Description	Sign	Description/data						Unit	Standard
Thermal conductivity depending on temperature	$\vartheta$	40	50	100	150	200	250	°C	EN 12667
	$\lambda$	0,042	0,044	0,054	0,067	0,083	0,104	W/(mK)	
Water soluble chloride ions (AS quality)	-	$\leq 10$						ppm	EN ISO 12624
Water absorption	$W_p$	$\leq 1$						-	EN ISO 29767
Water vapour diffusion equivalent air layer thickness ALU	$S_d$	$\geq 200$						m	EN 12086
Silicone free	-	No emissions of lacquering disturbing substances						-	-
Melting point of fibres	$\vartheta$	$\geq 1000$						°C	DIN 4102-17
Specific heat capacity	$c_p$	1030						J/(kgK)	EN ISO 10456
Designation code	-	MW-EN14303-T4-ST(+)-250-WS1-MV2-CL10						-	EN 14303

Declared material properties are obtained in the production process and ensured by the factory production control in accordance with the European Standard at the time of manufacture. Observing storage and handling guidelines will maintain performance within published tolerances.

## HANDLING

Knauf Insulation products are easy to handle and easy to install. They are supplied in suitable packaging materials to balance necessary transport protection with sustainable recycling options. Packaging is not designed for long-term storage or exposure to harsh weather conditions. Further product information is mentioned on every pack.

## STORAGE

For longer-term protection on site we recommend storing the product either indoors or alternatively under a roof cover and off the ground. If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

## STANDARD FORMATS\*

Thickness	30 -120 mm
Width	500 / 1000 mm

\*Other dimensions on request.



Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's 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 – the colour is completely natural.

## Knauf Insulation d.o.o.

Varaždinska 140, 42220 Novi Marof, Croatia | E-mail: [ts@knaufinsulation.com](mailto:ts@knaufinsulation.com)

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