

THERMO-TEK LM AIR ALU LAMELLA MATS FOR PERFECT FIT ON CIRCULAR AND RECTANGULAR DUCTS



THERMO-TEK LAMELLA MAT LM AIR ALU: LIGHT WEIGHT WITH A SOFT GRIP AND UNIQUE FLEX-FIBRES



Thermo-teK Lamella Mat LM Air ALU is a mat consisting of individual mineral wool lamellas with vertical orientation, which are bonded on one side with reinforced multi-layer aluminium foil.

The ECOSE binder technology, without any added formaldehyde provides a non-smelling, soft grip mineral wool with excellent fiber elasticity to enable perfect fit on any shape of duct, pipe or vessel.

Produkt info:



MULTIPLE BENEFITS



**30%
LIGHTER**
than other similar
mineral wool
products**

**SOFT
TOUCH***



- ✓ Lightweight and very flexible solution (much lighter than similar products)
- ✓ Packed in strong bags that offer excellent protection from dirt, dust and moisture, also reusable as waste bag
- ✓ One (universal) product for different applications, forms, diameters and sizes
- ✓ Tear-resistant, sturdy aluminium lamination
- ✓ Easy to handle, cut and install around different shapes (perfect edge fit on rectangular ducts, perfect bending, staying solid / excellent forming even on small diameter pipes)
- ✓ Good mechanical resistance / stiffness (durable and robust)
- ✓ Professional visual appearance on finished installations
- ✓ User-friendly soft touch
- ✓ ECOSE® Technology

* Out of 788 interviewed insulators, 95% judged mineral wool with ECOSE® Technology to be less itchy compared to traditional mineral wool insulation material

** only 0,84 kg/m² at 30 mm thickness

OUR NEW LAMELLA MATS LM AIR ALU ARE PRODUCED WITH ECOSE® TECHNOLOGY.

Knauf Insulation Mineral Wool products made with ECOSE® Technology benefit from a no added formaldehyde binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. Due to this technology, handling with the product is much more comfortable which brings the installers an over-average installation friendliness (smooth yet still flexible and firm touch and feel). All common technical features are on competitive level or better. Handling, mounting and fixing are in line with known market standards.



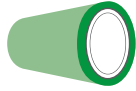
APPLICATIONS

Thermo-teK Lamella Mat LM Air ALU is recommended **for thermal and sound insulation** of the defined applications within technical insulation.

- Air duct insulation (rectangular and circular)
- Pipe lines



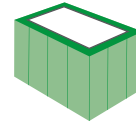
Rectangular air ducts –
outside insulation



Circular air ducts –
outside insulation



Pipe insulation –
heating, water supply



Ducts & pipes in technical
& acoustic rooms

Recommended pipe diameter from 35 mm. The product is delivered in common thicknesses ranging from 25-100 mm.

TYPICAL USE



Circular air duct insulation



Rectangular air duct insulation



Insulation of pipe work

PACKAGING



Thermo-teK Lamella Mat LM Air ALU is packed in strong bags that offers excellent protection from dirt, dust and moisture. Knauf Insulation packages stack without slipping and are easy to carry, handle and store. Empty bags can be used as waste bags during and after installation.



Installation video:



challenge.
create.
care.

TECHNICAL DATA

Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A2 – s1, d0	–	EN 13501-1
Thermal conductivity depending on temperature	ϑ_m	0 10 40 50 100 150 200 250	°C	EN 12667
	λ	0,034 0,036 0,042 0,043 0,054 0,067 0,082 0,100	W/(m·K)	
Maximum service temperature	ST(+)	250	°C	EN ISO 18097
Service temperature facing	–	≤ 80	°C	–
Density	ρ	ca. 28	kg/m ³	EN ISO 29470
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200	m	EN 12086
Silicone free	–	No emissions by lacquering disturbing substances	–	–
Designation code	–	MW-EN14303-TS-ST(+)-250-MV2	–	EN 14303

The technical details are for information only. Please refer to the data sheet for complete current details. www.knaufinsulation-ts.com

CERTIFICATES



DECLARATION OF PERFORMANCE

www.dopki.com/T43080PCPR



SUMMARY

Thermo-teK Lamella Mat LM Air ALU is an innovative product from Knauf Insulation which provides a universal fit for high quality insulation of all types of airducts, whether round and rectangular. Advanced product features assure excellent forming even on small pipes. Fast and user friendly installation contributes to cost saving within the whole process chain.

CONTACT

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COMPANY PROFILE

Knauf Insulation is one of the most respected names in the insulation industry worldwide with over 40 years of experience and still growing fast. Over 5.500 employees in more than 40 countries and 27 manufacturing sites. Being part of the family-owned Knauf group, Knauf Insulation Technical Solutions provides solutions for customers' requirements in industry, marine applications, heating, ventilation and air conditioning. A profound market understanding and insulation know-how enables us to provide a broad range of products to meet your specific needs.