

## KRONOTEX silverline

### Description and Measurements

KRONOTEX silverline wood-fibre insulation is laminated on one side with special aluminium foil, which is attached without any additional adhesives.

The lamination is impermeable to moisture (acting as a vapour barrier) and also absorbs electrosmog. Measurements by the IGEF has shown that electromagnetic radiation in the frequency range between 20 kHz and four GHz is attenuated by between 52 and 95 dB, depending on the frequency. This adds up to an overall reduction of at least 99.999%. Only 0.001% of the radiation striking the outside of the aluminium-laminated wood-fibre insulation is still detectable directly behind it.

### Measurements acc. to ASTM D-4935-2010

Frequencies	Shielding attenuation of the aluminium foil by itself		Shielding attenuation of the laminated wood-fibre insulation
LF radio waves	100 kHz	104 dB	37 dB
MF radio waves	1 MHz	96 dB	52 dB
UHF radio waves	100 MHz	98 dB	88 dB
BOSNET (TETRA)	470 MHz	105 dB	100 dB
D-Netz (GSM 900)	900 MHz	98 dB	95 dB
E-Netz (GSM 1800)	1800 MHz	90 dB	92 dB
Bluetooth, Wi-Fi	2450 MHz	84 dB	91 dB

### Technical Data

Characteristic	Test standard	Values
Nominal thermal conductivity $\lambda_D$	DIN EN 12524 (Table 2)	0.07 W/m*K
Reaction to fire	DIN EN 13501-1	E/E <sub>fl</sub>
Bulk density	EN 1602	Approx. 135 kg/m <sup>3</sup>
Water vapour diffusion factor $\mu$	EN 53122	sd = 150 m
Footfall sound attenuation	DIN EN ISO 140-8	20 dB
Compressive strength at 10% deformation	DIN EN 826	> 10 kPa
Laminate flooring thickness when used on underfloor heating		< 9 mm
Shielding against electromagnetic radiation	ASTM D-4935-10 von 20 kHz bis 4 GHz	99.999%
Infrared reflection		Approx. 85%
Composition		Wood fibre, binding fibre, ammonium phosphate, aluminium lamination

### Delivery Programme

Format [mm]	Thickness [mm]	
	5	
10,000 x 675 (roll)	Rolls per pallet	20 or 60
	Pallets per truck	20 (at 60 rolls per pallet)
	Area per pallet [m <sup>2</sup> ]	135 or 405
	Surface area per roll [m <sup>2</sup> ]	6.75

Special formats and thicknesses on request

## Benefits for Merchants and Installers



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### KRONOTEX silverline: Quadruple Protection – Easy to Install

In addition to its other healthy properties and its vast range of possible applications, the aluminium-laminated wood-fibre insulation KRONOTEX silverline scores points with practical benefits for retailers and users. Its multifunctionality minimises storage costs, and the packaging units are easy to handle and transport. Final consumers also benefit from this.

Whether the lightweight yet sturdy panels are used under laminate flooring to reduce transmitted walking sound or as an alternative to vapour barrier membranes in walls or roofs, it's quick and easy to lay them, seal the joints, and attach them to the substrate.

### Additional Advantages:

- No extra adhesives are used to attach the aluminium lamination
- Easy to cut using a Stanley knife or other suitable blade
- Recyclable
- Pleasant to the touch and skin-friendly
- Environmentally friendly
- Adhesive tape (11 m) included with each roll of KRONOTEX silverline

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**NEU** KRONOTEX silverline

The First Multifunctional Wood-Fibre Insulation  
with Aluminium Lamination

KRONOTEX GmbH & Co. KG

Your Feel-Good Partner:



Made in Germany



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## KRONOTEX silverline: 1 Product – 6 Functions

### Conducive to Healthy Living and Multifunctional

Builder-owners and installers want to be sure of using healthy, eco-friendly products. Energy-conserving, green materials are steadily increasing in importance with their crucial advantages. KRONOTEX silverline unites no fewer than six functions in a single wood-fibre insulation product. This is made possible by a special laminated aluminium foil:

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[www.kronotex.com](http://www.kronotex.com)



### 1. Reduced Impact and Reflected Walking Sound

The most important property of KRONOTEX silverline is its outstanding ability to reduce impact sound and reflected walking noise. One major benefit of the aluminium lamination is that it does away with the need for an additional PE membrane. Another is that KRONOTEX silverline can be laid without problem on underfloor heating underneath laminate floor coverings up to nine millimetres thick. KRONOTEX laminate floors are especially well-suited for applications of this type.



### 2. Extra Thermal Insulation

KRONOTEX silverline also excels with its ability to supplement existing thermal insulation. Particularly in the coldest winter months, another five millimetres make a noticeable difference.

## 1 Product – 6 Functions

### Environmental Contamination with Electromog Is Increasing

Environmental contamination by electromagnetic radiation has dramatically increased in recent years – and the harmful consequences are undeniable. The World Health Organisation (WHO), for example, has even described the radio-frequency radiation emitted by mobile phone base stations as “possibly carcinogenic”. To limit the damaging effects of electromog, it’s becoming more and more important for builder-owners and architects to integrate long-term protection, a statement that applies especially to residential buildings.



### 3. Protection from Electromog

KRONOTEX silverline is currently the only eco-friendly wood-fibre insulation that blocks electromog. Measurements by the International Society for Electromagnetic Smog Research (IGEF) have shown that KRONOTEX silverline actually reduces electromagnetic radiation by more than 99%. KRONOTEX silverline has received the IGEF test mark for its excellent shielding effect.

## 1 Product – 6 Functions



### 4. Reflection of Infrared Radiation

KRONOTEX silverline reflects infrared heat to keep it inside rooms. Energy-efficient infrared radiation is emitted, for example, by radiative space heaters used to keep enclosed areas warm. KRONOTEX silverline reflects this infrared radiation to prevent heat losses.



### 5. Vapour Barrier

Another important property of the aluminium lamination is that it doubles as a vapour barrier. This makes KRONOTEX silverline especially well-suited for use in roofs, ceilings and walls. It replaces conventional impermeable membranes while offering additional properties and benefits.



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### 6. Airtight Layer

One of the key requirements for energy-efficient construction is a highly airtight building envelope. KRONOTEX silverline can be used to create a continuous airtight layer that prevents heat from escaping and condensation from entering. Adhesive aluminium tape is recommended for sealing the butt joints between the panels.

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