Your Feel-Good Partner:











KRONOTEX GMBH & CO. KG Wittstocker Chaussee 1 D-16909 Heiligengrabe Deutschland sales.floor@kronotex.de www.kronotex.com SWISS KRONO GROUP

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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 | | ding attenuation of luminium 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 $\lambda_{\scriptscriptstyle D}$ | DIN EN 12524 (Table 2) | 0.07 W/m*K |
| Reaction to fire | DIN EN 13501-1 | E/E _{fl} |
| Bulk density | EN 1602 | Approx. 135 kg/m³ |
| Water vapour diffusion factor μ | EN 53122 | sd = 150 m |
| Footfall sound attenuation | DIN EN ISO 140-8 | 20 dB |
| Compressive strength at 10% deformation | n 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 phosophate, aluminium lamination |

Delivery Programme

| Thickness [mm] 5 | | |
|----------------------------|---|--|
| | | |
| Rolls per pallet | 20 or 60 | |
| Pallets per truck | 20 (at 60 rolls per pallet) | |
| Area per pallet [m²] | 135 or 405 | |
| Surface area per roll [m²] | 6.75 | |
| | Rolls per pallet Pallets per truck Area per pallet [m²] | |

Special formats and thicknesses on request





KRONOTEX FLOORS FOR LIVING

KRONOTEX silverline: Quadruple Protection – Easy to Install

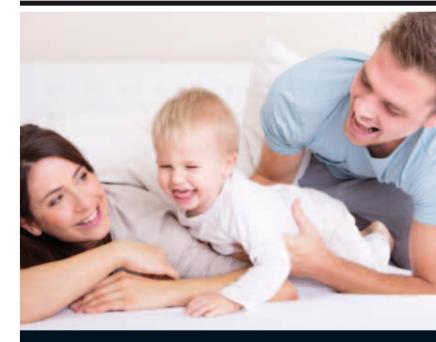
In addition to its other healthy properties and its vast range of possible applications, the aluminium-laminated wood-fibre insulation KRONOTEX silverline scores points with practical benefits for retailers and users. Its multifunctionality minimises storage costs, and the packaging units are easy to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

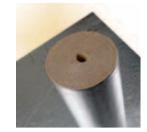






The First Multifunctional Wood-Fibre Insulation with Aluminium Lamination

KRONOTEX GmbH & Co. KG



KRONOTEX silverline: 1 Product – 6 Functions

1 Product – 6 Functions

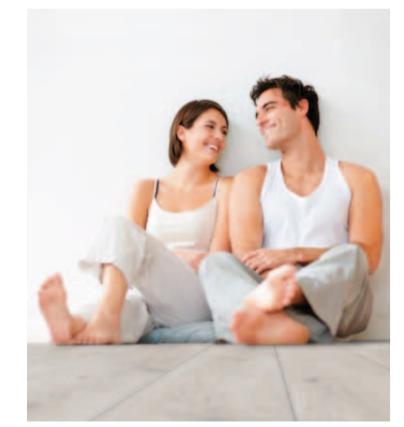
KRONOTEX FLOORS FOR LIVING

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 woodfibre insulation product. This is made possible by a special laminated aluminium foil:

Made in Germany





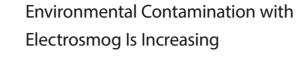
I. Reduced Impact and Reflected Walking Sound

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.



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 electrosmog, 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 Electrosmog

KRONOTEX silverline is currently the only eco-friendly wood-fibre insulation that blocks electrosmog. 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.



4. Reflection of Infrared Radiation

KRONOTEX silverline reflects infrared heat to keep it inside rooms. Energyefficient 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 Barrie

1 Product – 6 Functions

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.



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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