



# The future is **ECO-LOGICAL**



Up to  
**19 dB**  
Impact sound reduction

*EcoSilent*



Up to  
**20 dB**  
Impact sound reduction

*EcoSilent flex*



Up to  
**21 dB**  
Impact sound reduction

*EcoSilent Premium*

## **STEICO underlay for parquet and laminate flooring**

- From natural wood fibre
- Improves room acoustics
- Impact sound resistance
- Levels unevenness

**STEICO**  
Economical. Ecological. Good.

# Why use STEICO underlays?

## Ecological.

STEICO underlays are made of natural wood fibre without any harmful additives. That's not only ecological but also ensures a healthy indoor climate.

## Economical.

STEICO underlays have an excellent price/performance ratio. They are easy to lay, long-lasting and durable.

## Good.

Impact sound resistance, improves room acoustics, compensates for uneven floors and high compression strength. STEICO underlays are simply good.

The best proof: STEICO impact sound insulation was awarded the Domotex „Green Collection Award 2023“.



# Eco-Logical STEICO advantages



Up to  
**19 dB**  
Impact sound reduction



Up to  
**20 dB**  
Impact sound reduction



Up to  
**21 dB**  
Impact sound reduction

## *EcoSilent*

### **Thickness:**

**3 mm/4 mm:** Minimum installation height. Excellent solution for underfloor heating.

**5 mm:** The all-rounder for renovation and new-build. Levels out uneven spots up to 2 mm. Good for underfloor heating.

**7 mm:** Best possible levelling of unevenness of up to 3 mm.

**Compressive strength**  
up to 15 tonnes/m<sup>2</sup>.

**Manufactured without additional additives**  
Bonded using the woods own lignin.



## *EcoSilent flex*

### **Thickness:**

**Available in 5 mm.**

**Compressive strength**  
up to 1 tonne/m<sup>2</sup>.

### **Quick to lay**

A roll format of 1.1m x 10m allows STEICO *EcoSilent flex* to be laid quickly in large rooms.

### **Easy to cut**

Quick and easy to work with.

**Reduces unevenness**  
up to 3.1 mm.

**Thermal insulation**  
on cold floors.

## *EcoSilent Premium*

### **Thickness:**

**Available in 7 mm.**

**Compressive strength**  
up to 20 tonnes/m<sup>2</sup>.

Maximum **impact sound resistance up to 21dB.**

**Reduces unevenness**  
up to 3 mm.

Meets the minimum requirements of the **MMFA-category „Polymer“.**

### **BiBoard-Technology**

Two specially matched fibre layers for resilience and impact sound insulation.



**Manufactured without additional additives**





Up to  
**19 dB**  
Impact sound reduction

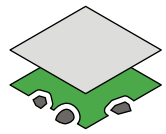
Up to  
**20 dB**  
Impact sound reduction

Up to  
**21 dB**  
Impact sound reduction

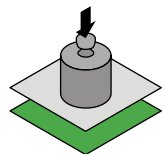
From natural wood fibre

# It all depends on the underlay

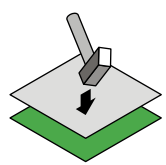
## Protects the flooring



**Compensates for unevenness of up to 3 mm**



**Compressive strength up to 20t per m<sup>2</sup>**  
Protects delicate click-systems.

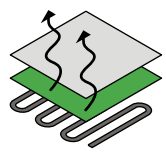


**Protection from falling objects**  
Cushioning properties protect the surface.



**Particularly long lasting**  
thanks to a robust fibre structure.

## Improves room comfort



**Suitable for underfloor heating**



**Impact sound resistance up to 21 dB**  
Significantly quieter in the room below.



**Improves the room acoustics**  
Lighter, higher quality footfall sound.

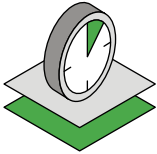


### CO<sub>2</sub> storage

Wood products such as STEICO impact sound insulation store a significant amount of CO<sub>2</sub> and ensure its long term removal from the atmosphere.

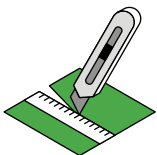


## Easy to work with



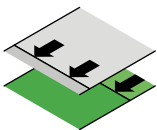
### Handy board size or on a roll

Quick installation guaranteed.



### Easy to cut

Only a cutting knife and square edge required.



### Floating floor

No fixings or gluing necessary – either between boards or on the substrate.

## Healthy climate – internal and external



### Certified for a healthy internal climate

Products with independent testing by the Institute for Building Biology Rosenheim (IBR) – supports a biologically healthy room climate.



### Certified for sustainability

The wood used comes exclusively from sustainable forestry that is certified in accordance with the strict rules of the PEFC.



# The fibres make the difference



Wood fibres under the microscope: three dimensionally interlocking fibres ensure maximum stability

## Wood fibres are among the most efficient natural fibres

Their stability and durability is unsurpassed. As an impact sound insulation their high durability ensure decades of use.

Their resilience under compressive loads is also unsurpassed – particularly important for impact sound insulation. The fibres do not break, but reform themselves even after repeated loading.

A special advantage of the underlay boards is that they are produced without any additional binding agents – this is done purely with the woods own lignin which contributes to a healthy room climate.



**Bonding  
without glue**



# Performance values in detail

## Technical values according EN 16354 / EN 826



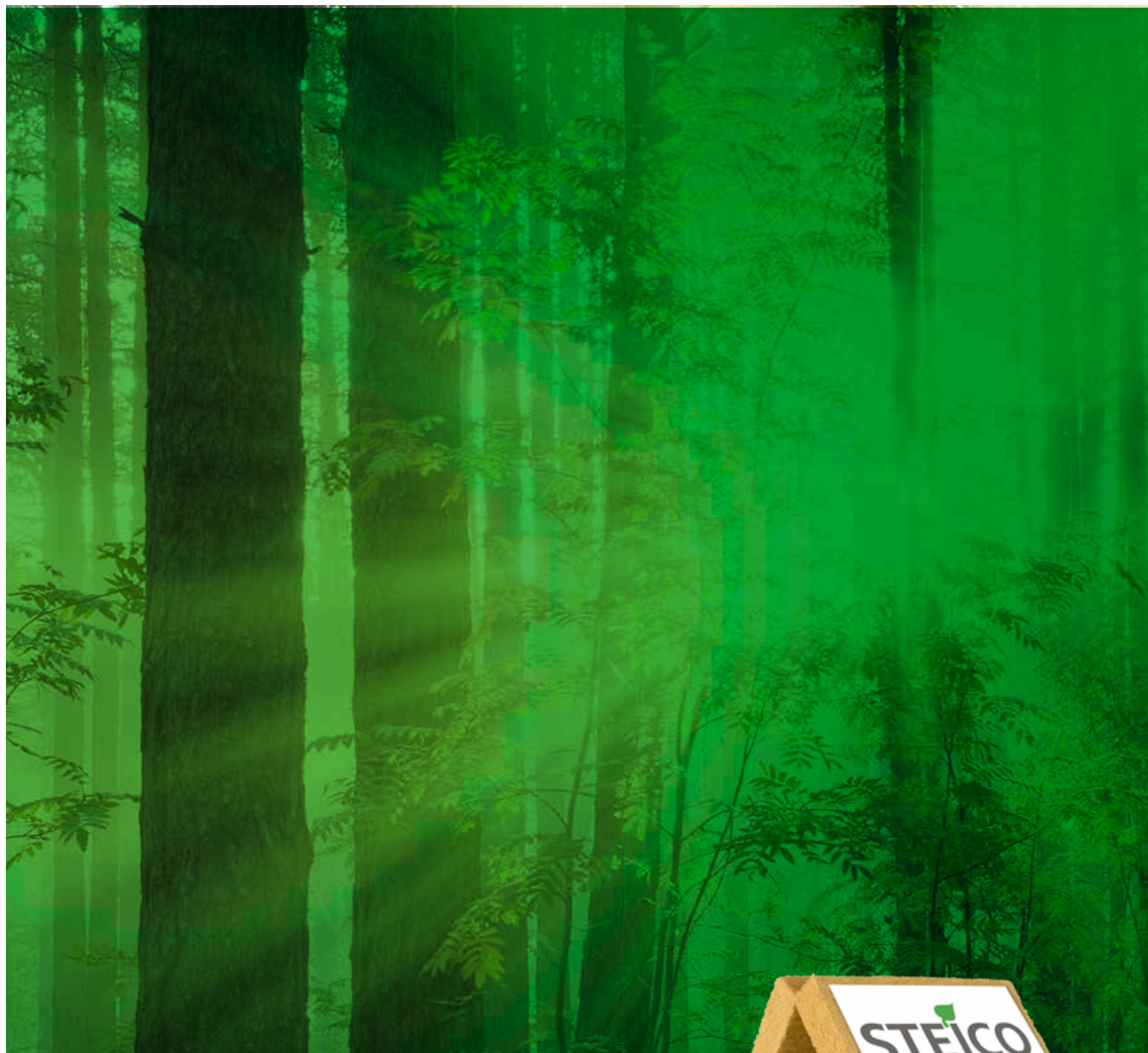
		STEICO <i>EcoSilent</i>				STEICO <i>EcoSilent flex</i>	STEICO <i>EcoSilent Premium</i>
		3 mm	4 mm	5 mm	7 mm	5mm	7mm
Thermal resistance [m²K/W]	R	0.043	0.057	0.071	0.100	0.120	0.140
Punctual conformability [mm]	PC	1.0	1.6	2.0	2.9	3.1	3.0
Water vapour diffusion resistance [m]	SD	0.02	0.02	0.03	0.04	0.02	0.04
Dynamic load resistance [cycles]	DL <sub>25</sub>	>150,000				>150,000	>150,000
Compressive strength [kPa] according to EN 826	CS	>150				>10	≥200
Compressive creep resistance [kPa]	CC	>50				>50	>50
Resistance to impact by large diameter ball [mm]	RLB	>800	>800	>800	>900	>1,800	>1,800
Impact sound reduction [dB]	IS <sub>LAM</sub>	19				20	21
Reaction to fire according to EN13501-1	RTF	E <sub>fl</sub>				E <sub>fl</sub>	E <sub>fl</sub>
Fulfils minimum requirements of EPLF		yes				yes	yes
Fulfils minimum requirements of category 1 of the MMFA		yes				yes	yes
Fulfils the enhanced requirements of category 1 of the MMFA		yes				./.	yes
Fulfils minimum requirements of category 2 of the MMFA		./.				./.	yes

## Characteristic values

		STEICO <i>EcoSilent</i>				STEICO <i>EcoSilent flex</i>	STEICO <i>EcoSilent Premium</i>
		3 mm	4 mm	5 mm	7 mm	5mm	7mm
Edge design		square edged				square edged	square edged
Bulk density [kg/m³]		250				130	285
Thermal conductivity λ [W/(m*K)]		0.07 (according to DIN ISO 10456, chart 3)				0.042	0.05 (according to DIN EN 13986, chart 11)
Water vapour diffusion resistance factor μ		5				3	5
Applied materials		wood fibre, aluminium sulphate, dye				wood fibre, polyolefin fibres, ammonium sulfate	wood fibre, aluminium sulphate, kaolin, dye
Waste code (EAK)		030105/170201, Disposal as wood and wood-based material				030105/170201, Disposal as wood and wood-based material	030105/170201, Disposal as wood and wood-based material

## Packaging

		STEICO <i>EcoSilent</i>				STEICO <i>EcoSilent flex</i>	STEICO <i>EcoSilent Premium</i>
		3 mm	4 mm	5 mm	7 mm	5mm	7mm
Format [mm]		790x590				1,100x10,000	790x590
Number / pack		20	15	15	15	1	15
Area / pack [m²]		9.3	7.0	7.0	7.0	11.0	7.0



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