

STEICO *EcoSilent*
underlay for laminate and parquet flooring



- Reliable protection from falling objects
- Achieves a flat finished surface
- Ideal for underfloor heating systems
- High compression resistance of 15 t/m² – protects against joint breakages on click systems
- Durable due to robust fibre structure
- Quick and easy to install and handle
- Contributes to a healthy indoor climate

Application area



- underlay for parquet - Laminate flooring

Technical data

Produced and supervised according to	EN 13986, EN 622-4
Board designation	EN 622 - 4 SB - E1
Fire class (RTF) according to EN 13501-1	E fl
Permanent temperature range [°C]	≤100
Thermal conductivity λD according to DIN EN 13986 [W/(m*K)]	0.050
Rated value thermal conductivity (according to EN ISO 10456, Table 3) [W/(m*K)]	0.070
Density [kg/m ³]	approx. 250
Water vapour diffusion resistance factor μ	5
Compression strength [kPa]	≥150
Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Ingredients	wood fibre, aluminium sulphate, dye
European Waste Code (EWC)	030105/170201, disposal as wood and wood-based materials, waste wood category A II
Bonded carbon [kg CO ₂ equivalent./m ³]	400
IS _{LAM} / Impact sound reduction [dB]	19
DL ₂₅ / Dynamic load resistance	> 150.000
PC / Point compensation capacity [mm]	(3mm = 1) (4mm = 1,6) (5mm = 2) (7mm = 2,9)
CC / Compressive creep resistance [kPa]	> 50
RLB / Resistance to impact by large diameter ball [mm]	(3mm) > 800 (4mm) > 800 (5mm) > 800 (7mm) > 900

Additional technical data

Thickness [mm]	Declared thermal resistance [(m ² *K)/W]	s _d value [m]
3	0.04	0.02
4	0.06	0.02
5	0.07	0.03
7	0.10	0.04

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
3	SE	790	590	20	9.320
3	SE	790	590	640	298.304
4	SE	790	590	15	6.990
4	SE	790	590	480	223.728
5	SE	790	590	15	6.990
5	SE	790	590	390	181.779
7	SE	790	590	300	139.830
7	SE	790	590	15	6.530

Weight and packing

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Weight/m ² [kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./pal. (approx.) [kg]
3	SE	790	590	0.80	0.3	0.70	2.7	12.6	215
3	SE	790	590	0.80	0.3	0.70	2.7	12.6	215
4	SE	790	590	0.96	0.5	0.70	1.3	12.6	260
4	SE	790	590	0.96	0.5	0.70	1.3	12.6	260
5	SE	790	590	1.30	0.6	0.60	1.8	12.6	255
5	SE	790	590	1.30	0.6	0.60	1.8	12.6	255
7	SE	790	590	1.80	0.8	0.50	1.6	12.6	260
7	SE	790	590	1.80	0.8	0.50	1.6	12.6	260

Notes

Storage

- Store wood fibre boards horizontally, flat and dry
- Protect edges from damage
- Only remove the film packaging when the ambient climate is dry and keep the pallet packing label

Disposal

- Disposal of offcuts: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II
- Disposal after dismantling: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II

Cutting

- The airtight membrane can be cut to size using a sharp knife with a stable ruler

Occupational health and safety

- Comply with local safety regulations for the processing of wood-based materials
- Suitable protective measures must be taken when cutting wood fibre insulation boards. (Dust extraction, dust mask, eye protection)

Building moisture

- Building moisture caused by e.g. fresh screed, plaster or paint must generally be removed by ventilation.
- Drying times for the various elements must be observed.
- Dry air must be ensured inside the building during the construction phase.
- STEICO *EcoSilent* is used in rooms with normal moisture loads. The use in areas with increased moisture load must be clarified in individual cases.
- If the STEICO product becomes damp during storage, it must be dried before processing.

Installation

Processing in floor systems

- Before laying wood-fibre boards, they must be acclimatised in closed packaging for 48 hours.
- When laying on mineral substrates, a separating layer is recommended. This protects the STEICO *EcoSilent* from rising residual moisture.
- Installation on full-surface substrate
- STEICO *EcoSilent* must be laid in a bond pattern
- Maintain edge distances (STEICO *soundstrip*)
- The local fire protection requirements must be observed in the area of the chimney and heating systems. (Observe clearances)

EPLF / MMFA

- Fulfills the minimum requirements of the EPLF
- Fulfills the minimum requirements of the MMFA's sub-layer group 1
- Fulfills the increased requirements of MMFA sub-layer group 1
- Does not fulfill the minimum requirements for underlay group 2 of the MMFA
- Not suitable as a carpet pad for design and vinyl floors

- This document is based on the German technical data sheet and is intended for general information purposes in an international context. National regulations and building codes must be additionally observed.

Certificates and quality management



☰ **Caption**

other abbreviations

- pal.** Pallet
- T&G** Tongue and Groove
- pac.** Packaging
- approx.** Approximately
- SE** square edge
- Pcs.** Pieces