Technical Data Sheet

INSULATE NATURALLY

Steico **Eco-Silent**

Environmentally friendly insulation system made from natural wood fibres

Steico **Eco-Silent**

Wood fibre underlay

Areas of application

Internal multi-purpose insulation board

- Excellent impact sound insulation and improvement of room acoustic of up to 19dB
- Excellent compressive strength of 15t/m2 - protects against joint breakages on click systems
- Levelling of the unfinished floor - easier floor installation
- Quick and easy to lay

STEICO
Strategic Distribution Partner

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insulatenaturally.com.au

Steico **Eco-Silent**

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Packaging & Sizes / R-Values

Thickness (mm)	Size [mm]	Cover. dim (mm)	Declared thermal resistance [(m²*K)/W]	sd value [m]	Packs per pallet]	Pcs per Pack	Area / pack [m²]	Weight /m² [kg]	Weight / pal. [kg]
3*	790 * 590	790 * 590	0.04	0.02	32	20	9.32	0.77	~ 555
5*	790 * 590	790 * 590	0.07	0.03	26	15	6.75	1.28	~ 560
7	790 * 590	790 * 590	0.10	0.04	20	15	6.75	1.75	~ 545

* Indicates special order size. Three months lead time.

Technical Data

Produced and supervised according to	EN 13986, EN 622-4	**Manufacturing process**	wet process / utilisation of the wood's own lignin for panel bonding
Board designation	EN 622- 4 SB - E1	**Ingredients**	Wood fibre, aluminium sulphate, dye
Fire class (RTF) according to EN 13501-1	E	**Waste code (EAK/AVV) 2014/955/EU: 030105/170201**	Disposable like wood and engineered wood products
Permanent temperature range [°C]	≤ 100	**Bonded Carbon [kg CO_2 equivalent/m³] (approx.)**	400
Thermal conductivity λD according to DIN EN 13986 [W/(m*K)]	0.050	**ISLAM / Impact sound reduction [dB**	19
Density [kg/m³] (approx.)	250	**DL25 / Dynamic load resistance**	≥ 150.000
Specific heat capacity [J/(kg*K)]	2,100	**PC / Point compensation capacity [mm]**	(3mm = 1) (4mm = 1,6) (5mm = 2) (7mm = 2,9)
Water vapour diffusion resistance factor μ	5	**CC / Compressive creep resistance [kPa]**	≥ 50
Compression strength [kPa]	≥ 150	**RLB / Resistance to impact by large diameter ball [mm]**	(3mm) > 800 (4mm) > 800 (5mm) > 800 (7mm) > 900

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.
- Maximum stacking height: 4 pallets

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 wood fibreboard from rising residual moisture.
• Installation on full-surface substrate • The product must be laid in a bond pattern
• We recommend STEICOsoundstrip as edge insulation strips for rising building components.
• The local fire protection requirements must be observed in the area of the chimney and heating systems. (Observe clearances)

Cutting

- The boards can be cut to size using typical woodworking tools.

Occupational health and safety

- HSE guidance on the safe cutting of timber and the management of wood dust should be followed

Building moisture

- Building moisture caused by fresh screed, plaster or paint, for example, must generally be removed by ventilation.
- Dry air must be ensured inside the building during the construction phase.
- Wood fibre insulation boards are delivered dry. On building sites a material moisture level is reached that permits immediate plaster coating.

EPLF / MMFA

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

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Scan for Installation Guide