STEICO*isorel*

Standard wood fibre insulation board



Multi purpose wood fibre insulation board

- Insulation board and height levelling board under screed systems
- Ideal for industrial application such as whiteboards
- Compression strength ≥100 kPa
- Finely graded thicknesses, e.g. for height levelling in floor constructions
- Diffusion-open for increased structural safety
- Wood from responsible forestry - PEFC certified

Application area

- Wood fiberboard for floor constructions under wet and dry screed systems
- Can be used as a single layer under click parquet and click laminate ≥ 10mm

Technical data

Produced and supervised according to	EN 13986
Board designation	EN 622-4 SB – E1
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤ 100 °C
Thermal conductivity λD according to DIN EN 13986	0.050 W/(m*K)
Rated value thermal conductivity (according to EN ISO 10456, Table 3)	0.070 W/(m*K)
Density	~ 230 kg/m³
Water vapour diffusion resistance factor μ	5
Specific heat capacity	2,100 J/(kg*K)
Compressive strength at 10% compression δ_{10}	≥ 0.10 N/mm²
Compression strength	≥ 100 kPa
Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Ingredients	Wood fibre

Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
8	0.15	0.04
10	0.20	0.05
12	0.20	0.06
15	0.30	0.08
19	0.35	0.10

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Bonded carbon

CO_2-storage

During growth, trees absorb carbon dioxide (CO_2) and split the molecule into carbon (C) and oxygen (O_2). The carbon is bound in the wood. The amount of bound carbon (C) is therefore also referred to as CO_2 equivalent (CO_2eq). As long as the wood is used in the form of wood products, the carbon remains bound and is removed from the atmosphere.

Biogenic carbon content in the product according to EN 15804+A2	approx. 403 kg CO_2eq/m³

Forms of delivery

Formats for versatile use

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
8	SE	1200	1000	138	165.600
10	SE	1350	600	228	184.680
10	SE	2500	1200	114	342.000
12	SE	2500	1200	95	285.000
15	SE	2500	1200	76	228.000
19	SE	1350	600	120	97.200
19	SE	2500	1200	60	180.000

Weight and packing

Formats for versatile use

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Weight/ m²[kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./pal. (approx.) [kg]
8	SE	1200	1000	1.80	2.2	0.05	0.9	16.5	325
10	SE	1350	600	2.30	1.9	0.01	1.0	20.3	460
10	SE	2500	1200	2.20	6.9	0.05	1.6	25.2	815
12	SE	2500	1200	2.80	8.3	0.05	1.6	25.2	820
15	SE	2500	1200	3.50	10.4	0.05	1.6	25.2	820
19	SE	1350	600	4.40	3.5	0.01	1.0	20.3	450
19	SE	2500	1200	4.40	13.1	0.05	1.6	25.2	815

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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

Waste cuttings:
- Waste code according to 2014/955/EU: 03 01 05

Dismantling:
- Waste code according to 2014/955/EU: 17 02 01

Cutting

- The boards can be cut to size using a band saw, circular saw, jigsaw and other wood-cutting tools.

Occupational health and safety

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

Building moisture

- Excess moisture caused by e.g. fresh screed, plaster, or paint must be removed by ventilation
- Dry air must be ensured inside the building during the construction phase.

Installation

- 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. (min. offset 250 mm)
- We recommend STEICO*soundstrip* as edge insulation strips for rising building components.
- When used in combination with wet screed, a separating layer must be planned.
- The local fire protection requirements must be observed in the area of the chimney and heating systems. (Observe clearances)

Certificates and quality management

CE

PEFC
PEFC/04-31-2550
Promoting Sustainable Forest Management
www.pefc.org

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Caption

other abbreviations

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

Compliance

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Liability disclaimer

The contents of this document have been compiled with the utmost care. However, applicable standards and regulations can change. STEICO accepts no liability for the accuracy, completeness and current applicability of the standards and regulations presented. Always check compliance with standards and regulations and the suitability of our products for the specific intended use, and make any necessary adjustments during installation.

STEICO accepts no responsibility for the completeness, accuracy or quality of information provided by third parties.

Regional document validity: EU*

***Additional Validity Information**

The contents of this document have been prepared in consideration of European product standards and provide a general overview of component structures, construction methods, and installation. Local applicable regulations have not been considered.

The most recent version of this document applies. This version can be found at:
www.steico.com/tds_steicoisorel_eur_en