technical data sheet

STEICO*base*

Compression resistant wood fibre insulation board



Multi purpose wood fibre insulation board with very high compression strength

- Insulation board and height levelling board under screed systems
- Render carrying board for Clay and Lime plasters in internal construction
- High compression strength ≥150 kPa
- Contributes to the regulation of indoor air moisture
- Diffusion open for increased structural safety
- Wood from responsible forestry - PEFC certified

Application area



- Wood fibre board for floor constructions under wet and dry screed systems
- Pressure-resistant plaster base board on full-surface wooden substrates (≥ 15 mm) indoors
- Can be used as a single layer up to 40 mm under click parquet and click laminate ≥ 10 mm

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T5 – CS (10\Y)150 – TR10 – MU5
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤100 °C
Declared thermal conductivity	0.048 W/(m*K)
Density	~ 250 kg/m³
Water vapour diffusion resistance factor μ	5
Specific heat capacity	2,100 J/(kg*K)
Compressive strength at 10% compression δ_{10}	≥ 0.15 N/mm²
Compression strength	≥ 150 kPa
Tensile strength perpendicular to face	~ ≥ 10 kPa
Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Ingredients	Wood fibre, bond between layers, aluminium sulphate
Declared level of airflow resistance	≥100 (kPa*s)/m²
Compressibility with payload ≤ 5 kPa	≤ 1, CP1 mm

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Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
20	0.40	0.10
40	0.80	0.20
60	1.25	0.30
80	1.65	0.40
100	2.05	0.50

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. 433 kg CO_2eq/m³

Forms of delivery

Handy formats for flat surfaces

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
20	SE	1350	600	112	90.720
40	SE	1350	600	56	45.360
60	SE	1350	600	38	30.780
80	SE	1350	600	28	22.680
100	SE	1350	600	22	17.820

Weight and packing

Handy formats for flat surfaces

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]
20	SE	1350	600	5.20	4.2	0.05	1.0	20.2	495
40	SE	1350	600	10.40	8.4	0.05	1.0	20.2	495
60	SE	1350	600	15.60	12.6	0.05	1.0	20.2	505
80	SE	1350	600	20.80	16.8	0.05	1.0	20.2	495
100	SE	1350	600	26.00	21.1	0.05	1.0	20.2	490

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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
- Maximum stacking height: 4 pallets

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 the 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

- Building moisture caused by e.g. fresh screed, plaster or paint 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 the final material moisture is attained via acclimatisation
- Before plastering ensure the moisture content of the Wood-fibre insulation boards is 13%.

Installation

Installation in floor systems

- 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)

Installation for plastering

Please refer to the processing instructions at the following link:
https://www.steico.com/eur/downloads/documents/technical-/-installation

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

Responsible for content
STEICO SE
Otto-Lilienthal-Ring 30
85622 Feldkirchen
Germany
Web: www.steico.com
Mail: info@steico.com

Version: 4
Date: 2026-09-21

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_steicobase_eur_en