STEICO*internal*

Wood fibre insulation boards for internal insulation



Wood fibre insulation board for internal masonry and timber frame insulation

- High building physics safety
- Can be combined with recommended Lime and Clay plasters
- Contributes to the regulation of indoor air moisture
- Independently tested and recommended by the German Institute for Building Biology Rosenheim
- Diffusion open and sorptive - natural moisture management to protect the construction
- Wood from responsible forestry - PEFC certified

Application area



- Interior insulation for mineral surfaces

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T4 – CS(10\ Y)50 – TR2,5 – AFr 100
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤100 °C
Declared thermal conductivity	0.038 W/(m*K)
Density	~ 160 kg/m³
Water vapour diffusion resistance factor μ	5
Specific heat capacity	2,100 J/(kg*K)
Compressive strength at 10% compression δ_{10}	0.05 N/mm²
Compression strength	≥ 50 kPa
Tensile strength perpendicular to face	~ ≥ 2.5 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

Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
40	1.05	0.20
60	1.55	0.30
80	2.10	0.40
100	2.60	0.50

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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. 285 kg CO_2eq/m³

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Length net [mm]	Width net [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]	Coverage/pal. net [m²]
40	T+G	1200	380	1186	366	84	38.304	36.462
40	SE	1200	380	1200	380	84	38.304	38.304
60	T+G	1200	380	1183	363	57	25.992	24.742
60	SE	1200	380	1200	380	57	25.992	25.992
80	SE	1200	380	1200	380	42	19.152	19.152
100	SE	1200	380	1200	380	33	15.048	15.048

Weight and packing

Handy formats, e.g. for construction site assembly

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]
40	T+G	1200	380	6.40	2.7	1.55	3.4	18.2	255
40	SE	1200	380	6.40	2.9	0.05	0.7	18.2	265
60	T+G	1200	380	9.60	4.0	1.55	3.4	18.2	255
60	SE	1200	380	9.60	4.4	0.05	0.7	18.2	275
80	SE	1200	380	12.80	5.8	0.05	0.7	18.2	265
100	SE	1200	380	16.00	7.3	0.05	0.7	18.2	265

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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: 2 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 STEICO*isoflex cut combi* cutting table, 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 provided 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.
- Before plastering, a moisture content limit of 13% must be maintained in the wood fibre boards.
- For renovations and new buildings made of mineral building materials a high core moisture content of the substrate must be avoided.
- All types of external moisture sources (e.g. rising humidity) must be must be excluded or, if necessary, eliminated by specialists.

Installation

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

Caption

other abbreviations

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

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Compliance

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

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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_steicointernal_eur_en