STEICO*therm*

Rigid wood fibre insulation



Rigid wood fibre insulation board for a wide range of applications

- Very good insulating properties in winter and summer
- Ideal as above rafter insulation in combination with a STEICO sheathing board
- With wood's own lignin as a binding agent
- Diffusion-open for increased structural safety
- Wood from responsible forestry - PEFC certified

Application area



- Stable thermal insulation for plan applications in roof and wall areas, can be used in combination with a sarking board or underlay membrane
- Stable insulation material for floor structures

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T4-CS(10\Y)50 – TR 2,5 – WS 2,0 – AFr100
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
Short-term water absorption	≤ 2.0 kg/m²
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

STEICO*therm*

Rigid wood fibre insulation

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
120	3.15	0.60
140	3.65	0.70
160	4.20	0.80

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. 279 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]
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
120	SE	1350	600	18	14.580
140	SE	1350	600	16	12.960
160	SE	1350	600	14	11.340

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]
40	SE	1350	600	6.40	5.2	0.05	1.0	20.2	315
60	SE	1350	600	9.60	7.8	0.05	1.0	20.2	325
80	SE	1350	600	12.80	10.4	0.05	1.0	20.2	320
100	SE	1350	600	16.00	13.0	0.05	1.0	20.2	315
120	SE	1350	600	19.20	15.6	0.05	1.0	20.2	310
140	SE	1350	600	22.40	18.1	0.05	1.0	20.2	315
160	SE	1350	600	25.60	20.7	0.05	1.0	20.2	315

STEICO*therm*

Rigid wood fibre insulation

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 or a band saw, circular saw, jigsaw and other wood-cutting tools.

Occupational health and safety

- Additional fall protection (man safe systems) should be used in line with national guidelines
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)
- ,The installation of STEICO*therm* is not permitted on roofs without a full bearing surface beneath the wood fibre boards
- STEICO wood fibre boards can be walked on directly above a rafter or joist support, however they cannot be used as the primary walking surface. Suspended ceilings with wood fibre insulation boards are generally considered **non-walkable** components. (Risk of breakthrough in the cavity area)
- To ensure that the roof can be walked on sufficiently, it is recommended that the water resistant sarking boards are is laid at the same time as the corresponding battens.

Building moisture

- Condensation on the side of the panel facing the room during the construction phase disrupts (hinders) the diffusion flow.
- 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

Installation roof area

- The STEICO*therm* must be backed with a full-surface wooden substrate in the roof area
- STEICO*therm* always requires an additional surface layer, in the form of a water-repellent rigid sarking board or a diffusion-open underlay membrane.

Installation wall area

- For ventilated facades, STEICO*therm* always requires an additional water-repellent surface layer using water-repellent rigid sheathing boards or a diffusion-open membrane.

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)

STEICO*therm*

Rigid wood fibre insulation

Certificates and quality management

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: 5
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_steicotherm_eur_en