STEICO*therm dry*

Rigid wood fibre insulation



Rigid wood fibre insulation board for a wide range of applications in the building envelope

- Very good insulating properties in winter
- Ideal as above rafter insulation in combination with a STEICO sheathing board
- Lightweight yet stable insulation boards
- Diffusion-open for increased structural safety
- Wood from responsible forestry - PEFC certified

Application area



- Stable thermal insulation for fully supported 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 – T5 – CS(10\Y)50 – TR10 – WS1,0 – MU3
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤ 100 °C
Declared thermal conductivity	0.037 W/(m*K)
Density	~ 110 kg/m³
Water vapour diffusion resistance factor μ	3
Short-term water absorption	≤ 1.0 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	~ 10 kPa
Manufacturing process	dry process / utilisation polyurethane resin for panel bonding
Ingredients	wood fibre, polyurethane resin, paraffin wax
Declared level of airflow resistance	≥5 (kPa*s)/m²

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Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
60	1.60	0.18
80	2.15	0.24
100	2.70	0.30
120	3.20	0.36
140	3.75	0.42
160	4.30	0.48
180	4.85	0.54
200	5.40	0.60
220	5.90	0.66
240	6.45	0.72

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. 185 kg CO_2eq/m³

Forms of delivery

Handy formats

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]
60	SE	1350	600	1350	600	38	30.780	30.780
60	T+G	1880	600	1855	575	38	42.864	40.532
80	SE	1350	600	1350	600	28	22.680	22.680
80	T+G	1880	600	1855	575	28	31.584	29.866
100	SE	1350	600	1350	600	22	17.820	17.820
100	T+G	1880	600	1855	575	22	24.816	23.466
120	SE	1350	600	1350	600	18	14.580	14.580
120	T+G	1880	600	1855	575	18	20.304	19.199
140	SE	1350	600	1350	600	16	12.960	12.960
140	T+G	1880	600	1855	575	16	18.048	17.066
160	SE	1350	600	1350	600	14	11.340	11.340
160	T+G	1880	600	1855	575	14	15.792	14.933
180	SE	1350	600	1350	600	12	9.720	9.720
180	T+G	1880	600	1855	575	12	13.536	12.800
200	SE	1350	600	1350	600	12	9.720	9.720
200	T+G	1880	600	1855	575	12	13.536	12.800
220	SE	1350	600	1350	600	10	8.100	8.100
220	T+G	1880	600	1855	575	10	11.280	10.666
240	SE	1350	600	1350	600	10	8.100	8.100
240	T+G	1880	600	1855	575	10	11.280	10.666

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Weight and packing

Handy formats

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]
60	SE	1350	600	6.60	5.3	0.10	1.0	20.3	225
60	T+G	1880	600	6.60	7.0	0.05	4.0	25.4	300
80	SE	1350	600	8.80	7.1	0.10	1.0	20.3	225
80	T+G	1880	600	8.80	9.4	0.05	4.0	25.4	295
100	SE	1350	600	11.00	8.9	0.10	1.0	20.3	225
100	T+G	1880	600	11.00	11.7	0.05	4.0	25.4	290
120	SE	1350	600	13.20	10.7	0.10	1.0	20.3	220
120	T+G	1880	600	13.20	14.1	0.05	4.0	25.4	290
140	SE	1350	600	15.40	12.5	0.10	1.0	20.3	225
140	T+G	1880	600	15.40	16.4	0.05	4.0	25.4	295
160	SE	1350	600	17.60	14.3	0.10	1.0	20.3	225
160	T+G	1880	600	17.60	18.8	0.05	4.0	25.4	295
180	SE	1350	600	19.80	16.0	0.10	1.0	20.3	220
180	T+G	1880	600	19.80	21.1	0.05	4.0	25.4	290
200	SE	1350	600	22.00	17.8	0.10	1.0	20.3	240
200	T+G	1880	600	22.00	23.5	0.05	4.1	25.4	315
220	SE	1350	600	24.20	19.6	0.10	1.0	20.3	225
220	T+G	1880	600	24.20	25.8	0.05	4.1	25.4	295
240	SE	1350	600	26.40	21.4	0.10	1.0	20.3	240
240	T+G	1880	600	26.40	28.2	0.05	4.1	25.4	315

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

Occupational health and safety

- Legally valid accident prevention regulations must be observed (fall protection!)
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)
- STEICO*therm dry* (T&G) is tread-resistant in the rafter support area. However, according to the guidelines of the ZVDH and the main association of industrial trade associations, suspended ceilings with wood fibre insulation boards are generally considered non-trafficable components. (Risk of breakthrough in the cavity area)
- The installation of STEICO*therm dry* is not permitted on roofs without a full-surface, or boarded support structure
- To ensure that the roof can be walked on sufficiently, it is recommended that the water-bearing layer 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.

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Installation

Installation roof area

- The STEICO*therm dry* must be backed with a full-surface wooden substrate (e.g. T&G formwork) in the roof area
- From an insulation thickness of 100 mm, STEICO*therm dry* **with T&G** can also be laid in the roof area without a full-surface substrate. (Recommendation 120 mm with T&G)
- STEICO*therm dry* **always** requires an additional layer as a water-bearing layer, in the form of a water-repellent rigid underlay board or a diffusion-open underlay membrane.
- When using STEICO*therm dry* (T&G ≥100 mm), the wood fibre board must be laid with a minimum bond of 250 mm. Two overlapping joints in one area is not permitted.

Installation wall area

- For ventilated facades, STEICO*therm dry* **(Square edged or with stepped rebate)** always requires an additional water-bearing layer in the form of a water-repellent rigid underlay board or a diffusion-open sarking membrane.
- STEICO*therm dry* with T&G does not require an additional water-bearing layer for rear-ventilated facades
- When STEICO *therm dry* is used for open facades, a diffusion open membrane must be used

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

STEICO*therm dry*

Rigid wood fibre insulation

Compliance

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Version: 3
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_steicothermdry_eur_en