



- Available as square edge or T & G profile
- Above rafter insulation in combination with other boards (e.g. STEICO *universal dry I universal*)
- Excellent insulation properties in winter and summer
- High compression strength for economical fixing on roof areas
- Particularly vapour permeable for high construction safety
- High sorption capacity contributes to a balanced room climate
- Ecological, environmentally friendly and recyclable like wood

Application area



- Stable thermal insulation for plan applications in roof and wall areas
- 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 [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0.038
Density [kg/m ³]	approx. 160
Water vapour diffusion resistance factor μ	5
Short-term water absorption [kg/m ²]	≤ 2,0
Specific heat capacity [J/(kg*K)]	2,100
Compressive strength at 10% compression δ_{10} [N/mm ²]	0,05
Compression strength [kPa]	50
Tensile strength perpendicular to face [kPa]	2,5
Manufacturing process	wet process
Ingredients	wood fibre, bond between layers
European Waste Code (EWC)	030105/170201, disposal as wood and wood-based materials, waste wood category A II
Declared level of airflow resistance [(kPa*s)/m ²]	≥100
Bonded carbon [kg CO ₂ equivalent./m ²]	270

Additional technical data

Thickness [mm]	Declared thermal resistance [(m ² *K)/W]	s _d value [m]
20	0.50	0.10
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
180	4.70	0.90
200	5.25	1.00

Forms of delivery

Handy formats with square edge (in combination with sarking board or sarking membrane)

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
20	SE	1350	600	116	93.960
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
180	SE	1350	600	12	9.720
200	SE	1350	600	12	9.720

Handy formats with tongue and groove (in combination with sarking board or sarking membrane)

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Length net [mm]	Width net [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]	Coverage/pal. net [m ²]
100	T+G	1880	600	1855	575	22	24.816	23.466
120	T+G	1880	600	1855	575	18	20.304	19.199
140	T+G	1880	600	1855	575	16	18.048	17.066
160	T+G	1880	600	1855	575	14	15.792	14.933

Weight and packing

Handy formats with square edge (in combination with sarking board or sarking membrane)

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Weight/m ² [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	3.20	2.6	0.10	1.0	20.3	325
40	SE	1350	600	6.40	5.2	0.10	1.0	20.3	315
60	SE	1350	600	9.60	7.8	0.10	1.0	20.3	325
80	SE	1350	600	12.80	10.4	0.10	1.0	20.3	320
100	SE	1350	600	16.00	13.0	0.10	1.0	20.3	315
120	SE	1350	600	19.20	15.6	0.10	1.0	20.3	310
140	SE	1350	600	22.40	18.1	0.10	1.0	20.3	315
160	SE	1350	600	25.60	20.7	0.10	1.0	20.3	315
180	SE	1350	600	28.80	23.3	0.10	1.0	20.3	305
200	SE	1350	600	32.00	25.9	0.10	1.0	20.3	335

Handy formats with tongue and groove (in combination with sarking board or sarking membrane)

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Weight/m ² [kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./pal. (approx.) [kg]
100	T+G	1880	600	16.00	17.1	2.90	1.0	25.5	410
120	T+G	1880	600	19.20	20.5	2.90	1.0	25.5	405
140	T+G	1880	600	22.40	23.9	2.90	1.0	25.5	415
160	T+G	1880	600	25.60	27.3	2.90	1.0	25.5	415

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

- Disposal of offcuts: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II
- Disposal after dismantling: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II

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)
- 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)
- ,The installation of STEICO*therm* is not permitted on roofs without a full bearing surface beneath the wood fibre boards
- To ensure that the roof can be walked on sufficiently, it is recommended that the water resistant sarking boards are 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.
- Additional measures, such as the installation of drying equipment during the construction phase, are recommended.

Installation

- This document is based on the German technical data sheet and is intended for general information purposes in an international context. National regulations and building codes must be additionally observed.

Installation in floor systems

- When laying on mineral substrates, a separating layer is recommended. This protects the STEICO*therm* from rising residual moisture.
- Must be laid on a full-surface substrate
- STEICO*therm* must be laid in a bond. (min. offset 250 mm)
- Maintain edge distances (STEICO*soundstrip*)
- 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 roof area

- The STEICO*therm* 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* with T&G can also be laid in the roof area without a full-surface substrate. (Recommendation 120 mm with T&G)
- STEICO*therm* always requires an additional surface layer, in the form of a water-repellent rigid sarking board or a diffusion-open underlay membrane.
- When using STEICO*therm* (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* always requires an additional water-repellent surface layer using water-repellent rigid sheathing boards or a diffusion-open membrane.

Certificates and quality management



☰ Caption

other abbreviations

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