



- Multifunctional rigid woodfibre insulation board
- Available in T & G profiles, stepped profiles and square edged
- Above rafter insulation in combination with other boards (e.g. STEICO*universal dry / universal*)
- Manufactured in dry process
- Exceptionally light and robust
- Excellent insulation properties in winter and summer
- Water vapour open
- Helps to regulate the indoor climate

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 – T5 – CS(10Y)50 – TR10 – WS1,0 – MU3
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0.037
Density [kg/m³]	approx. 110
Water vapour diffusion resistance factor μ	3
Short-term water absorption [kg/m²]	≤ 1.0
Specific heat capacity [J/(kg*K)]	2,100
Compressive strength at 10% compression δ_{10} [N/mm²]	0.05
Compression strength [kPa]	50
Tensile strength perpendicular to face [kPa]	10
Manufacturing process	dry process / utilization polyurethane resin for panel bonding (approx. 5%)
Ingredients	wood fibre, polyurethane resin, paraffin wax
European Waste Code (EWC)	030105/170201, disposal as wood and wood-based materials, waste wood category A II
Bonded carbon [kg CO ₂ equivalent./m²]	160

Additional technical data

Thickness [mm]	Declared thermal resistance [(m ² *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
260	7.00	0.78
280	7.55	0.84
300	8.10	0.90

Forms of delivery

Handy formats with SE edge

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
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
220	SE	1350	600	10	8.100
240	SE	1350	600	10	8.100
260	SE	1350	600	8	6.480
280	SE	1350	600	8	6.480
300	SE	1350	600	8	6.480

Handy formats with stepped Edge

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]
140	Stepped profile	1350	600	1335	585	16	12.960	12.496
160	Stepped profile	1350	600	1335	585	14	11.340	10.934
180	Stepped profile	1350	600	1335	585	12	9.720	9.372
200	Stepped profile	1350	600	1335	585	12	9.720	9.372
220	Stepped profile	1350	600	1335	585	10	8.100	7.810
240	Stepped profile	1350	600	1335	585	10	8.100	7.810

Handy formats with tongue and groove

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]
60	T+G	1880	600	1855	575	38	42.864	40.532
80	T+G	1880	600	1855	575	28	31.584	29.866
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
180	T+G	1880	600	1855	575	12	13.536	12.800
200	T+G	1880	600	1855	575	12	13.536	12.800
220	T+G	1880	600	1855	575	10	11.280	10.666
240	T+G	1880	600	1855	575	10	11.280	10.666

Weight and packing

Handy formats with SE edge

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]
60	SE	1350	600	6.60	5.3	0.10	1.0	20.3	225
80	SE	1350	600	8.80	7.1	0.10	1.0	20.3	225
100	SE	1350	600	11.00	8.9	0.10	1.0	20.3	225
120	SE	1350	600	13.20	10.7	0.10	1.0	20.3	220
140	SE	1350	600	15.40	12.5	0.10	1.0	20.3	225
160	SE	1350	600	17.60	14.3	0.10	1.0	20.3	225
180	SE	1350	600	19.80	16.0	0.10	1.0	20.3	220
200	SE	1350	600	22.00	17.8	0.10	1.0	20.3	240
220	SE	1350	600	24.20	19.6	0.10	1.0	20.3	225
240	SE	1350	600	26.40	21.4	0.10	1.0	20.3	240
260	SE	1350	600	28.60	23.2	0.10	1.0	20.3	210
280	SE	1350	600	30.80	24.9	0.10	1.0	20.3	225
300	SE	1350	600	33.00	26.7	0.10	1.0	20.3	240

Handy formats with stepped Edge

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]
140	Stepped profile	1350	600	15.40	12.0	4.00	1.1	20.3	225
160	Stepped profile	1350	600	17.60	13.7	4.00	1.1	20.3	225
180	Stepped profile	1350	600	19.80	15.5	4.00	1.1	20.3	215
200	Stepped profile	1350	600	22.00	17.2	4.00	1.1	20.3	235
220	Stepped profile	1350	600	24.20	18.9	4.00	1.1	20.3	220
240	Stepped profile	1350	600	26.40	20.6	4.00	1.1	20.3	235

Handy formats with tongue and groove

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]
60	T+G	1880	600	6.60	7.0	4.40	1.1	25.5	300
80	T+G	1880	600	8.80	9.4	4.40	1.1	25.5	295
100	T+G	1880	600	11.00	11.7	4.40	1.1	25.5	295
120	T+G	1880	600	13.20	14.1	4.40	1.1	25.5	285
140	T+G	1880	600	15.40	16.4	4.40	1.1	25.5	300
160	T+G	1880	600	17.60	18.8	4.40	1.1	25.5	300
180	T+G	1880	600	19.80	21.1	4.40	1.1	25.5	290
200	T+G	1880	600	22.00	23.5	4.40	1.1	25.5	315
220	T+G	1880	600	24.20	25.8	4.40	1.1	25.5	295
240	T+G	1880	600	26.40	28.2	4.40	1.1	25.5	320

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

- 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.
- 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.
- Installation on full-surface substrate
- STEICO*therm dry* 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 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* always requires an additional layer as a water-bearing layer, in the form of an 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 by re open slat facades, there must be used a diffusion-open sarking membrane

Certificates and quality management



☰ Caption

other abbreviations

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