



- 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

Fields of application according to DIN 4108 - 10: 2021

- DAD (dk, dg, dm)
- DZ
- DEO (dk, dg, dm)
- WAB ^{b)} (dk, dg, dm)

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T5 – CS(10V)50 – TR10 – WS1,0 – MU3
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Density [kg/m ³]	approx. 110
Water vapour diffusion resistance factor μ	3
Short-term water absorption [kg/m ²]	≤ 1.0
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]	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./m ³]	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

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	1300	560	36	26.208
80	SE	1300	560	26	18.928
100	SE	1300	560	22	16.016
120	SE	1300	560	18	13.104
140	SE	1300	560	14	10.192
160	SE	1300	560	12	8.736
180	SE	1300	560	12	8.736

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	1300	560	6.60	4.8	0.10	0.8	20.3	200
80	SE	1300	560	8.80	6.4	0.10	0.8	20.3	195
100	SE	1300	560	11.00	8.0	0.10	0.8	20.3	200
120	SE	1300	560	13.20	9.6	0.10	0.8	20.3	200
140	SE	1300	560	15.40	11.2	0.10	0.8	20.3	185
160	SE	1300	560	17.60	12.8	0.10	0.8	20.3	180
180	SE	1300	560	19.80	14.4	0.10	0.8	20.3	200

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

Fields of application

Ceiling, Roof

DAD Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage

DEO Inside insulation of the ceiling (on the top) under screed without noise protection requirements

DZ Insulation between rafters, insulation of wooden ceilings, insulation of upper floor slabs

Wall

WAB External insulation of the wall behind the cladding ^{b)}

b) Also for application from below against outside air.

Differentiation of certain product features:

Pressure resistance

dk No compressive strength

dg Low compressive strength

dm Medium compressive strength

other abbreviations

pal. Pallet

T&G Tongue and Groove

pac. Packaging

approx. Approximately

SE square edge

Pcs. Pieces