



- Particularly low thermal conductivity, excellent protection against the cold
- Reduces thermal bridging
- particularly vapour permeable to ensure reduced condensation risk in renovations
- Extra thick panels especially for renovation use
- Can be used in conjunction with STEICO ai-injected insulation systems
- Ecological, environmentally friendly and recyclable like wood
- Directly rendered wood fibre boards for external use

Application area



- Rigid underlay board for the roof area
- Directly rendered wood fibre boards for external use
- Wall construction panel for timber construction in combination with ventilated rainscreen facades
- Windproof tongue and groove connection

Fields of application according to DIN 4108 - 10: 2021

- DAD (dk, dg, dm, dh)
- DAA (dh)
- DEO (dg, dm, dh)
- WAB^{b)} (dk, dg, dm, dh, ds)
- WAP^{b) c)} (zk, zg, zh)

Technical data

Produced and supervised according to	EN 13171, EN 14964
Board designation	WF – EN 13171 – T5 – DS(70,-)2 – CS(10\Y)100 – TR20-WS1,0 – MU3, EN-14964-IL
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0.040
Density [kg/m ³]	approx. 140
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]	0.1
Compression strength [kPa]	≥100
Tensile strength perpendicular to face [kPa]	≥20
Manufacturing process	dry process / utilization polyurethane resin for panel bonding (approx. 5%)
Permissible roof pitch without additional measures [°]	≥ 14
Maximum undercutting of the standard roof pitch [°]	8
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
Declared level of airflow resistance [(kPa*s)/m ²]	≥100
Bonded carbon [kg CO ₂ equivalent./m ²]	200

Additional technical data

Thickness [mm]	Declared thermal resistance [(m ² *K)/W]	s _d value [m]
60	1.50	0.18
80	2.00	0.24
100	2.50	0.30

Forms of delivery

Combo formats for roof and wall applications

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	2230	600	2205	575	36	48.168	45.644
80	T+G	2230	600	2205	575	28	37.464	35.501
100	T+G	2230	600	2205	575	22	29.436	27.893

Weight and packing

Combo formats for roof and wall applications

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	2230	600	8.40	10.7	0.05	1.0	28.4	410
80	T+G	2230	600	11.20	14.2	0.05	1.0	28.4	425
100	T+G	2230	600	14.00	17.8	0.05	1.0	28.4	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: 3 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

- 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
- To ensure that the roof can be walked on at all times, it is advisable to lay the battens at the same time.
- 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)
- Comply with local regulations for the cutting of wood-fibre materials

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

Installation floor systems

- A separating layer is recommended when laying the wood fibre board on mineral substrates. This protects the STEICO*special dry* from rising residual moisture.
- Must be laid on a full-surface substrate
- STEICO*special dry* must be laid in a bonded pattern. (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 in roof and wall areas

- For additional technical documentation, handling instructions etc. please consult the STEICO homepage.

Installation as a plaster base board

Under <http://www.steico.com/technical-installation> or the enclosed QR code, you will find the Installation instructions for this product under the category „processing instructions STEICO ETICS“.
(Installation instructions facade insulation)

Additional information

- The maximum weight of the entire render system is 25kg
- Gluing clinker brick slips onto the plaster base board / plaster system is not permitted
- 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.



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

DAA Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under sealing

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

Wall

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

WAP External insulation of the wall under rendering ^{b)c)}

b) Also for application from below against outside air.

c) Application area/abbreviation WAP does not apply for integration into the ground and for insulation boards in external thermal insulation composite systems (ETICS). ETICS are not a standardized application.

Differentiation of certain product features:

Pressure resistance

dk No compressive strength

dg Low compressive strength

dm Medium compressive strength

dh High compressive strength

ds Very high compressive strength

Tensile strength

zk No requirements for tensile strength

zg Low tensile strength

zh High tensile strength

other abbreviations

pal. Pallet

T&G Tongue and Groove

pac. Packaging

approx. Approximately

SE square edge

Pcs. Pieces