

STEICO *roof dry*
Insulation for flat roofs



- Especially suitable for flat roof insulation
- High summer heat protection
- Very good protection against the cold
- High compressive strength
- Ecological, environmentally friendly and recyclable like wood
- Manufactured using the dry process
- Available as sloped insulation

Application area



- For applications on flat roofs and floor structures
- Also available with a sloped surface

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T5 – DS(70/-)2 – CS (10\Y)100 – TR20 – WS1,0 – MU3
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
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]	0.10
Compression strength [kPa]	100
Tensile strength perpendicular to face [kPa]	≥ 20
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
Declared level of airflow resistance [(kPa*s)/m ²]	≥100
Bonded carbon [kg CO ₂ equivalent./m ³]	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
120	3.00	0.36
140	3.50	0.42
160	4.00	0.48
180	4.50	0.54
200	5.00	0.60

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
60	SE	800	800	38	24.320
80	SE	800	800	28	17.920
100	SE	800	800	22	14.080
120	SE	800	800	18	11.520
140	SE	800	800	16	10.240
160	SE	800	800	14	8.960
180	SE	800	800	12	7.680
200	SE	800	800	12	7.680

Weight and packing

Handy formats, e.g. for construction site assembly

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	800	800	8.40	5.4	0.10	1.0	12.7	225
80	SE	800	800	11.20	7.2	0.10	1.0	12.7	220
100	SE	800	800	14.00	9.0	0.10	1.0	12.7	215
120	SE	800	800	16.80	10.8	0.10	1.0	12.7	215
140	SE	800	800	19.60	12.5	0.10	1.0	12.7	220
160	SE	800	800	22.40	14.3	0.10	1.0	12.7	220
180	SE	800	800	25.20	16.1	0.10	1.0	12.7	210
200	SE	800	800	28.00	17.9	0.10	1.0	12.7	235

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

- Comply with local regulations for the processing of wood-fibre material
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)

Building moisture

- Building moisture caused by e.g. fresh screed, plaster or paint must generally be removed by ventilation.
- When used inside buildings, dry air must be ensured during the construction phase.
- Care must be taken to ensure that the vapour barrier is carefully installed in tight structures
- In flat roofs, STEICO*roof dry* must be installed in a dry state and must be protected from moisture during the construction phase.
- When laying on mineral substrates in the floor area, a separating layer is recommended. This protects the STEICO*roof dry* from rising residual moisture.
- When used in combination with wet screed, a separating layer must be planned

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 flat roof

- STEICO*roof dry* must be laid on a full-surface substrate.
- When laying insulation in multiple layers, it is recommended that the joints of the insulation boards are offset.
- STEICO*roof dry* is available with a sloped surface.
- Minimum height of the sloped insulation boards 43 mm
- The flat roof insulation must be protected from the weather and installed when dry
- According to DIN 68800-2, a 2 % gradient in the flat roof area is generally sufficient. The flat roof guideline requires preventing the formation of puddles on the waterproofing of a flat roof. For this reason, we recommend a minimum slope of 3 % in timber constructions.
- The local fire protection requirements must be observed in the area of the chimney and heating systems. (Maintain clearances)

Rear ventilation flat roof

- All rear-ventilated flat roof structures must be designed with a minimum roof pitch of 3°
- For all rear-ventilated superstructures from >3° to < 5°, a rear ventilation cross-section of at least 5 cm must be maintained
- From a rafter length of 10 meters, special measures may be required to maintain the ventilation function. For example, the installation of fans may be necessary to maintain the ventilation function, or the counter-batten height/ventilation height can be increased by 2 cm per additional meter of rafter length.
- The cavity length must not exceed 15 meters to comply with hazard class 0 in accordance with DIN 68800-2
- The openings of the ventilation grilles must have > 40% of the ventilated cross-sectional area.
- The local fire protection requirements must be observed in the area of the chimney and heating systems. (Observe clearances)

Processing floor system

- When laying on mineral substrates, a separating layer is recommended. This protects the STEICO*roof dry* from rising residual moisture.
- STEICO*roof dry* must be laid on a full-surface substrate
- STEICO*roof dry* must be laid in a bond. (min. offset 250 mm)
- Observe 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 fireplace and heating systems. (Observe clearances)

☑ state 11/2024 ⓘ The current edition applies. Errors excepted ⓘ Caption see last page

Certificates and quality management



☰ Caption

other abbreviations

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