Technical data sheet

STEICO*roof dry*

Wood fibre insulation for flat roofs



Pressure resistant wood fibre insulation system for flat roofs

- Optimised for flat roof insulation
- Available as customised sloped insulation, ridge turret available
- Very good insulating properties in winter and summer
- Wood from responsible forestry - PEFC certified

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 – WS1,0 – MU3 – CS (10\Y)100 –DS(70/-)2 – TR20
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤100 °C
Declared thermal conductivity	0,040 W/(m*K)
Density	~ 140 kg/m³
Water vapour diffusion resistance factor μ	3
Short-term water absorption	≤ 1.0 kg/m²
Specific heat capacity	2,100 J/(kg*K)
Compressive strength at 10% compression δ_{10}	0.10 N/mm²
Compression strength	≥ 100 kPa
Tensile strength perpendicular to face	~ ≥ 20 kPa
Manufacturing process	dry process / utilization polyurethane resin for panel bonding
Ingredients	wood fibre, polyurethane resin, paraffin wax
Declared level of airflow resistance	≥100 (kPa*s)/m²
Point load at 5 mm compressive strain PL (5) according to DIN EN 12430	≤ 1200 N
Determination of compressive creep in accordance with DIN EN 1606 (500 kg/m² / 5 kPa)	≤ 1 % (after 10 years)

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Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*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

Bonded carbon

CO_2-storage

During growth, trees absorb carbon dioxide (CO_2) and split the molecule into carbon (C) and oxygen (O_2). The carbon is bound in the wood. The amount of bound carbon (C) is therefore also referred to as CO_2 equivalent (CO_2eq). As long as the wood is used in the form of wood products, the carbon remains bound and is removed from the atmosphere.

Biogenic carbon content in the product according to EN 15804+A2	237 kg CO_2eq/m³

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 [m²]
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

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Weight and packing

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Weight/ m²[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	0.05	1.0	17.7	230
80	SE	800	800	11.20	7.2	0.05	1.0	17.7	225
100	SE	800	800	14.00	9.0	0.05	1.0	17.7	220
120	SE	800	800	16.80	10.8	0.05	1.0	17.7	220
140	SE	800	800	19.60	12.5	0.05	1.0	17.7	220
160	SE	800	800	22.40	14.3	0.05	1.0	17.7	225
180	SE	800	800	25.20	16.1	0.05	1.0	17.7	215
200	SE	800	800	28.00	17.9	0.05	1.0	17.7	240

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

Waste cuttings:
- Waste code according to 2014/955/EU: 03 01 05

Dismantling:
- Waste code according to 2014/955/EU: 17 02 01

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.

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Installation

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)

Certificates and quality management

CE

PEFC
PEFC/04-31-2550
Promoting Sustainable Forest Management
www.pefc.org

Caption

other abbreviations

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

STEICO*roof dry*

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Compliance

Responsible for content
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Liability disclaimer

The contents of this document have been compiled with the utmost care. However, applicable standards and regulations can change. STEICO accepts no liability for the accuracy, completeness and current applicability of the standards and regulations presented. Always check compliance with standards and regulations and the suitability of our products for the specific intended use, and make any necessary adjustments during installation.

STEICO accepts no responsibility for the completeness, accuracy or quality of information provided by third parties.

Regional document validity: EU*

***Additional Validity Information**

The contents of this document have been prepared in consideration of European product standards and provide a general overview of component structures, construction methods, and installation. Local applicable regulations have not been considered.

The most recent version of this document applies. This version can be found at:
www.steico.com/tds_steicoroofdry_eur_en