STEICO therm dry

Rigid wood fibre insulation

Rigid wood fibre insulation board for a wide range of applications in the building envelope

- Very good insulating properties in winter
- Ideal as above rafter insulation in combination with a STEICO sheathing board
- Lightweight yet stable insulation boards
- Diffusion-open for increased structural safety
- Wood from responsible forestry - PEFC certified

Application area

- Stable thermal insulation for fully supported applications in roof and wall areas, can be used in combination with a sarking board or underlay membrane
- Stable insulation material for floor structures

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN 13171 – T5 – CS(10\Y)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] (approx.)	10
Manufacturing process	dry process / utilisation polyurethane resin for panel bonding
Ingredients	wood fibre, polyurethane resin, paraffin wax
Bonded carbon [kg CO_2 equivalent./m³] (approx.)	160

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Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
40	1.05	0.12
60	1.60	0.18
80	2.15	0.24
100	2.70	0.30

Forms of delivery

Handy formats

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
40	SE	1350	600	56	45.360
60	SE	1350	600	38	30.780
80	SE	1350	600	28	22.680
100	SE	1350	600	22	17.820

Weight and packing

Handy formats

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]
40	SE	1350	600	4.40	3.6	0.10	1.0	20.3	230
60	SE	1350	600	6.60	5.3	0.10	1.0	20.3	225
80	SE	1350	600	8.00	6.5	0.05	1.0	20.3	220
100	SE	1350	600	10.00	8.1	0.05	1.0	20.3	215

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

- Legally valid accident prevention regulations must be observed (fall protection!)
- HSE guidance on the safe cutting of timber and the management of wood dust should be followed
- 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.

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Installation

Installation roof area

- The STEICO*therm dry* must be backed with a full-surface wooden substrate in the roof area
- STEICO*therm dry* **always** requires an additional layer as a water-bearing layer, in the form of a water-repellent rigid underlay board or a diffusion-open underlay membrane.

Installation wall area

- For ventilated facades, STEICO*therm dry* always requires an additional water-bearing layer in the form of a water-repellent rigid underlay board or a diffusion-open sarking membrane.
- When STEICO *therm dry* is used for open facades, a diffusion open membrane must be used

Installation in floor systems

- When laying on mineral substrates, a separating layer is recommended. This protects the wood fibreboard from rising residual moisture.
- Installation on full-surface substrate
- The product must be laid in a bond. (min. offset 250 mm)
- We recommend STEICO*soundstrip* as edge insulation strips for rising building components.
- 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)

Certificates and quality management

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Caption

other abbreviations

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

Responsible for content
STEICO UK Ltd
Unit 3 Eden Brae Business Park, Dunstable Road
Caddington LU1 4FF
Great Britain
Web: www.steico.com
Mail: info@steico.com

Version: 1
Date: 2025-05-12

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United Kingdom, Republic of Ireland

The currently valid version can be found at: www.steico.com/tds_steicothermdry_gbr-irl_en