Technical data sheet

STEICO*protect H*

Wood fibre insulation for ETICS



Render carrying wood fibre insulation board for ETICS in timber frame construction

- With tongue and groove for use in timber frame construction
- Can be combined with STEICO*secure* and many other render systems
- Diffusion-open to protect the construction
- With wood's own lignin as a binding agent
- When used as a wall construction panel in rear-ventilated façades, stiffening in accordance with German approval AbZ-9.1-826
- Wood from responsible forestry - PEFC certified

Application area

- Wood fiber insulation board from the wet process with tongue and groove for ETICS in timber construction
- Suitable for air-injected insulation from a board thickness of 40 mm

Technical data

Produced and supervised according to	EN 13171, EN 14964
Board designation	WF EN 13171 – T5 – WS1,0 – MU5 – CS(10/Y)150 – DS(70,90)3 – TR20
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range	≤100 °C
Declared thermal conductivity	0,048 W/(m*K)
Density	~ 265 kg/m³
Water vapour diffusion resistance factor μ	5
Specific heat capacity	2,100 J/(kg*K)
Compression strength	150 kPa
Tensile strength perpendicular to face	~ 20 kPa
Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Ingredients	wood fibre, aluminium sulphate, paraffin, bond between layers
Outdoor exposure	4 weeks

Additional technical data

Thickness [mm]	Type	Declared thermal resistance [(m²*K)/W]	s_d value [m]
40	H	0.80	0.20
60	H	1.25	0.30

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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	approx. 458 kg CO_2eq/m³

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Length net [mm]	Width net [mm]	Number/pal. [pcs.]	Coverage/ pal. gross [m²]	Coverage/ pal. net [m²]
40	H	T+G	1325	600	1300	575	56	44.520	41.860
60	H	T+G	1325	600	1300	575	38	30.210	28.405

Large format panels for pre-fabricated production, type H stiffening in accordance with AbZ-9.1-826

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
40	H	SE	2800	1250	28	98.000
60	H	SE	2800	1250	19	66.500

Weight and packing

Handy formats, e.g. for construction site assembly

Thickness [mm]	Type	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	H	T+G	1325	600	10.60	7.9	0.05	3.7	30.7	480
60	H	T+G	1325	600	15.90	11.9	0.05	3.7	30.7	490

Large format panels for pre-fabricated production, type H stiffening in accordance with AbZ-9.1-826

Thickness [mm]	Type	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	H	SE	2800	1250	10.60	37.1	2.07	1.6	59.1	1105
60	H	SE	2800	1250	15.90	55.7	2.07	1.6	59.1	1125

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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: 4 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

- Wood fibre insulation boards are delivered dry. On building sites a material moisture level is reached that allows immediate plaster coating.
- In the event of prolonged damp weathering with driving rain, or in periods of very high humidity, the material moisture content of the wood fibre insulation boards that have not yet been plastered may increase significantly. Before plastering, a limit moisture content of the wood fiber insulation board of 13 % must be maintained.
- For renovations and new buildings made of mineral building materials a high core moisture content of the substrate must be avoided.

Installation

Installation as a plaster base board

- Please observe the processing instructions under the following link: https://www.steico.com/eur/downloads/documents/technical-/-installation

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

Certificates and quality management

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

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Wood fibre insulation for ETICS

Caption

other abbreviations

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

Compliance

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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:
https://www.steico.com/tds_protect-h-renderboard_eur_en