STEICO*install*

Insulation for service voids



Wood fibre insulation system for timber construction service voids without sub-structure

- Available with pre-routed channels for on-site assembly of installations
- Interior panelling (e.g. plasterboard) can be fixed through the insulation boards in the substructure - no separate stud construction required
- Excellent combination with plasterboards
- Can also be used as a plaster base board indoors
- Reduction in construction costs due to rapid work progress
- Wood from responsible forestry - PEFC certified

Application area

- Plasterable wood fibre insulation board with milled mounting level for electrical installations
- Plaster base board for interior use on a full-surface wooden substrate
- Can be combined with gypsum fiberboards

Technical data

Produced and supervised according to	EN 13171
Board designation	WF – EN13171 – T5 – CS(10\Y)100 – TR20 – MU3
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
Specific heat capacity	2,100 J/(kg*K)
Compression strength	≥100 kPa
Tensile strength perpendicular to face	~ ≥ 20 kPa
Manufacturing process	dry process / utilisation polyurethane resin for panel bonding
Ingredients	wood fibre, polyurethane resin, paraffin wax
Declared level of airflow resistance	≥100 (kPa*s)/m²

Additional technical data

Thickness [mm]	Declared thermal resistance [(m²*K)/W]	s_d value [m]
50	1.25	0.15
60	1.50	0.18

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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. 237 kg CO_2eq/m³

Forms of delivery

One-man-panel for site fixing - without installation channels

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
50	SE	2600	600	44	68.640

Large format boards for prefabrication - with installation channels

Thickness [mm]	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
50	2635	1200	22	69.564
60	2650	1200	19	60.420

Weight and packing

One-man-panel for site fixing - without installation channels

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]
50	SE	2600	600	7.00	10.9	0.05	1.5	55.3	540

Large format boards for prefabrication - with installation channels

Thickness [mm]	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]
50	2635	1200	7.00	22.1	0.05	5.0	57.7	555
60	2650	1200	8.40	26.7	0.05	5.0	58.0	575

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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: 3 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
- The maximum moisture content of the full-surface substrate is u ≤ 15 M- %
- The relative air humidity should already correspond to the
- humidity during installation (50 % relative humidity ± 20°C)

Processing

Direct plastering

- The STEICO*install* can only be used for the interior.
- The STEICO*install* is fixed to a full-surface wooden substrate (min. 15mm thick) with screws or staples.
- The distance between the wide back staples in the width should be approx. 400-500 mm. The distance between the staples in height should be approx. 100 mm.
- Furthermore, the butt joints should also be fixed with staples when stapling.
- The wood fibre board can then be coated with the first layer of reinforcing plaster.
- The reinforcing mesh is then smoothed into the second layer of plaster.
- The surface can then be left as it is or a finishing render can be applied.
- We recommend a lime or clay plaster for the interior.

Installation behind gypsum plasterboard

- First, the STEICO*install* is fixed into the load-bearing substrate with stamples
- The plasterboard is screwed into the load-bearing substrate with screws. **Attention:** the wood fibre boards will not support plasterboard - screws must go through to substrate
- The spacing for screw fixing should be approx. 625 mm in width and 250 mm in height.
- The plaster boards are ready to accept plastering

Additional information

- The milled channels of STEICO*install* face inwards towards the wall, not outwards towards the installer.

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Certificates and quality management

Caption

other abbreviations

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

EUR Europe

Compliance

Responsible for content
STEICO SE
Otto-Lilienthal-Ring 30
85622 Feldkirchen
Germany
Web: www.steico.com
Mail: info@steico.com

Version: 3
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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_steicoinstall_eur_en