

Environmentally friendly insulation system made from natural wood fibres



Steico Base

Internal multi-purpose insulation board with very high compression strength



Areas of application

Floors - wet/dry screed
Internal partitions
Ceiling

- Ideal for heavy duty dry or wet screed construction
- Render carrying board for Lime and Clay plasters
- Excellent insulating properties
- Ecological, sustainable and recyclable



Packaging & Sizes – R values

Thickness (mm)	Size [mm]	Cover. dim (mm)	Declared thermal resistance [(m ² *K)/W]	sd value [m]	Pieces / pallet	m ² / pallet	Coverage per pallet [net m ²]	Weight kg / m ²	Weight / pal. [kg]
20	1150 * 595	1150 * 595	0.40	0.10	112	76.636	76.636	5.20	~ 430

Pallet size: ca. 1.15m * 1.20m * 1.24

Technical Data

Produced and supervised according to	EN 13171	Compressive strength at 10% compression $\delta 10$ [N/nm ²]	≥ 0.15
Board designation	WF – EN 13171 – T5 – CS (10\Y)150 – TR10 – MU5	Compression strength [kPa]	≥ 150
Fire class (RTF) according to EN 13501-1	E	Tensile strength perpendicular to face [kPa] (approx.)	≥ 10
Permanent temperature range [°C]	≤ 100	Declared level of airflow resistance [(kPa*s)/m ²]	≥ 100
Declared thermal conductivity [W/(m*K)]	0.048	Ingredients	Wood fibre, bond between layers, aluminium sulphate
Density [kg/m ³] (approx.)	250	Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Water vapour diffusion resistance factor μ	5	Waste code according to 2014/955/EU	03 01 05 / 17 02 01
Specific heat capacity [J/(kg*K)]	2,100	Bonded Carbon [kg CO ₂ equivalent/m ³] (approx.)	400

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

Cutting

- The boards can be cut to size using typical woodworking tools.

Occupational health and safety

- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)
- HSE guidance on the safe cutting of timber and the management of wood dust should be followed

Installation in floor systems

Building moisture

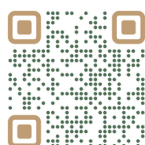
- Condensation on the side of the panel facing the room during the construction phase disrupts (hinders) the diffusion flow.
- Building moisture caused by fresh screed, plaster or paint, for example, must generally be removed by ventilation.
- Dry air must be ensured inside the building during the construction phase.

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 STEICOsoundstrip 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)

Installation for plastering

- The STEICObase can only be used for the interior.
- The STEICObase 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. 300 mm. The distance between the staples in height should be approx. 150 mm.
- Furthermore, when stapling the boards, butt joints should also be fixed with staples.
- The spacing for screw fixing should be approx. 250 mm in width and height.
- 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.



Scan for Installation Guide

