STEICO top

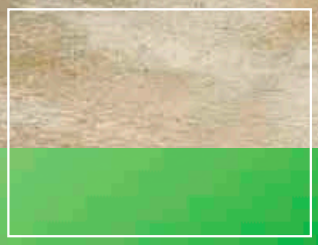
Insulation for attic floors

Environmentally-friendly insulation system made from natural wood fibres

Resistant surface

Suitable for light footfall

Provides storage space as well as high thermal performance



Ecological wood fibre insulation board with surface finish for more stability

Areas of application

Insulation for attic floors

- Ideal insulation for attic storage with light footfall
- High insulating properties in winter and summer
- Quick and easy to lay, using conventional tools
- Made out of natural wood – sustainable climate protection thanks to CO_2 storage
- Highly permeable to water vapour – protects the construction

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Insulation systems

The stable STEICO*top* boards can be installed quickly and easily.
STEICO*flex* can be used in more difficult areas, such as at the wall plate / rafter connection, where cutting STEICO*top* would prove more tricky.

Ceiling joists well insulated

STEICO*top* is light, rigid and available in small size sheets. Ideal for renovation projects.

Many buildings have been designed with accessible, but not habitable attic spaces. Many households utilise this space for additional storage, by laying boards over the insulated joists. With the introduction of better insulation / energy efficiency requirements, deeper loft insulation is now required.

Effective and easy thermal renovation

Boarding the attic and squashing the insulation, will result in reduced effectiveness of the insulation and thus not gain the energy efficiencies required.

STEICO*top* not only offers the consumer the desired storage space, but maintains the required insulation properties for energy effectiveness.

Easy to handle: The STEICO*top* boards are lightweight and due to their size (1,200 x 400 mm) can easily be fitted through most loft hatches.

The advantages of natural wood: The product is 'user friendly' and should not irritate the skin, either during or after installation.

Building and insulating with wood is a way to protect the climate

Thanks to photosynthesis, trees bind CO_2 into the wood. They release the oxygen back in the atmosphere and the carbon remains stored in the wood. Using wood in building helps reduce CO_2 concentration in the atmosphere. 1 m^3 of STEICO*top* stores 202 kg of CO_2.

Quick installation

Large attic spaces can be quickly insulated using STEICO*top*. If a double layer is required for enhanced insulation performance, then the boards should be laid with staggered joints.

For ease of cutting around the eaves detail where thermal bridging could be an issue, we recommend using STEICO*flex*.

This will help by filling any gaps caused by irregularities of the eaves connection. Loads should not be directly applied to the STEICO*flex*.

Cutting may be carried out using conventional woodworking tools, e.g. handsaws, electric saws.

Stable board with a unique surface

STEICO*top* insulation boards have a dense, specially structured surface, which has particularly high stability. When used in attics for storage (with 'light' footfall), a secondary flooring board is not required.

In addition, STEICO*top* insulating boards are diffusion 'open'. Should moisture penetrate the board, it can easily evaporate, without damage to the board..

System solution – up to 85 % less heat loss[1)]

In older properties many different ceiling / attic constructions may be found. STEICO products provide a suitable solution.:

Standard installation:
Single layer of STEICO*top*
The first 100 mm of insulation is the most critical in terms of energy savings. If there is a sub-deck already laid onto the joists, then STEICO*top* can be laid directly onto it. The specially hardened surface of STEICO*top* allows for direct storage and light footfall.

Improved Values Details:
Install 2 layers of STEICO*top* 80 mm
For enhanced levels of insulation, two layers of STEICO*top* can be laid on top of each other (staggered joints between the layers). With 2 layers of 80 mm STEICO*top* a 'u' value of 0.24 W/(m²*K) can be achieved.[1)].

Future requirements:
Combine STEICO*therm* with STEICO*top*
looking forward to the future, it is expected that more stringent regulations will come into force, along with higher fuel costs. To help combat this, it is possible to combine STEICO*top* with STEICO*therm* to an overall thickness to achieve a 'u' value of 0.18 W/(m²*K).

Detailed information about the energy saving potential with STEICO*top*found at www.steico.com

1) Compared with a 180 mm concerte ceiling with no insulation

Board specifications STEICO*top*

Thickness [mm]	Size [mm]	Weight. [kg/m²]	Pieces/ pallet	m²/ pallet	Weight./pal. [kg]
80	1.200*400	11,20	28	13,44	approx..150
100	1.200*400	14,00	22	10,56	approx.. 150

Technical data STEICO*top*

Produced and supervised in accordance with	DIN EN 13171
Board Designation	WF–EN13171–T5–CS(10\Y)100–TR10–MU3
Edge Profile	Square edges
Fire classification according to EN 13501-1	E
Thermal Conductivity λ_D [W/(m*K)]	0,040
Declared Thermal Resistance R_D [(m²*K)/W]	1,95 (80) / 2,40 (100)
Density [kg/m³]	approx. 140
Water vapour resistance diffusion factor μ	3
s_d value [m]	0,24 (80) / 0,30 (100)
Specific Heat Capacity c [J/(kg*K)]	2.100
Compressive strength at 10% compression [N/mm²]	0,1
Compressive strength [kPa]	100
Tensile strength perpendicular to the board ⊥ [kPa]	10
Length related flow resistance [(kPa*s)/m²]	≥100
Ingredients	wood fibre, polyurethane resin, paraffin wax
Waste Code (EAK)	030105 / 170201

Recommendations: Store laid flat, in dry conditions. Protect against edge damage. Keep wrapped until ready to use Maximum stack height of 2 pallets

Quality Management ISO 9001:2015

Environmental Management ISO 14001:2015

STEICO engineered by nature

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