

Environmentally-friendly insulation system  
made from natural wood fibres



**NEW  
PRODUCT**

## RECOMMENDED APPLICATIONS

Stable rigid thermal insulation made  
from natural wood fibres.

Suitable insulation for an attic floor.



## MATERIAL

Wood fibre insulation produced in  
accordance with EN 13171 with Quality  
Assurance monitoring.

The raw materials come from respon-  
sibly managed forests certified in  
accordance within FSC® guidelines  
(Forest Stewardship Council).

- Ideal insulation for attic storage with light footfall
- High surface resistance due to special surface finish
- Ecological, environmentally-friendly & recyclable
- Outstanding properties both in the heat and the cold
- Highly permeable
- Quick and easy to lay, using conventional tools
- Effective storage space with good insulation achieved

For more information please visit [www.steico.co.uk](http://www.steico.co.uk)

## INSULATION SYSTEMS

The stable STEICO<sup>top</sup> boards can be very quickly and easily installed.

STEICO<sup>flex</sup> can be used in more difficult areas, such as at the wall plate/rafter connection, where cutting STEICO<sup>top</sup> would prove more tricky.

STEICO<sup>flex</sup>: easily fitted around rafters →○

STEICO<sup>top</sup>: easily fitted onto a boarded surface →○

# Ceiling joists *well insulated*

STEICO<sup>top</sup> is light, rigid and available in small size sheets. Ideal for restoration 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.



The STEICO<sup>top</sup> boards are light in weight and due to their size of 1200 x 400 mm can be easily fitted through most loft accesses.

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

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



## QUICK INSTALLATION



Large attic spaces can be quickly insulated using STEICO<sup>top</sup>. 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, it is suggested that STEICO<sup>flex</sup> is used. STEICO<sup>flex</sup> will help in taking up any gaps caused by any irregularities of roof connections. Loads should not be directly applied to the STEICO<sup>flex</sup>.

## STABLE BOARDS WITH AN UNIQUE SURFACE

STEICO<sup>top</sup> 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<sup>top</sup> insulating boards are diffusion 'open'. Should moisture penetrate the board, it can easily evaporate, without damage to the board.



The unique surface finish of STEICO<sup>top</sup>

## SYSTEM SOLUTIONS<sup>a</sup>

In older properties many different ceiling/attic constructions may be found. Steico products may be able to provide a suitable solution.

### Standard Installation: Single layer of STEICO<sup>top</sup>

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<sup>top</sup> can be laid directly onto it. The specially hardened surface of STEICO<sup>top</sup> allows for direct storage and light footfall.

### Improved Values Details: Install 2 layers of STEICO<sup>top</sup>

For enhanced levels of insulation, two layers of STEICO<sup>top</sup> can be laid on top of each other (staggered joints between the layers). With 2 layers of 80 mm STEICO<sup>top</sup> a 'u' value of 0.24 W/(m<sup>2</sup>\*K) can be achieved.

### Future requirements: Combine STEICO<sup>therm</sup> with STEICO<sup>top</sup>

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<sup>top</sup> with STEICO<sup>therm</sup> to an overall thickness to achieve a 'u' value of 0.18 W/(m<sup>2</sup>\*K).

Detailed information about the energy saving potential with STEICO<sup>top</sup> found at [www.steico.co.uk](http://www.steico.co.uk)

<sup>a</sup> Basis: Ungedämmte Betondecke mit 160 mm.





## HANDLING

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

## CHARACTERISTICS

Thickness [mm]	Size [mm]	Weight [kg/m <sup>2</sup> ]	Sheets / pallet	m <sup>2</sup> / pallet	Weigh./pal. [kg]
80	1200 * 400	11.20	28	13.44	ca. 150
100	1200 * 400	14.00	22	10.56	ca. 150

## TECHNICAL DATA STEICO<sup>top</sup>

Produced and supervised in accordance with	DIN EN 13171
Board Designation	WF – EN 13171 – T4 – CS(10\Y)70 – TR10 – AF100
Edge Profile	Square edged
Fire classification according to EN 13501-1	E
Thermal Conductivity $\lambda_D$ [W/(m*K)]	0.041
Declared Thermal Resistance RD [(m <sup>2</sup> *K)/W]	1.9 (80)/2.6 (100)
Density [kg/m <sup>3</sup> ]	ca. 140
Water vapour resistance diffusion factor $\mu$	3
sd value [m]	0.24 (80)/0.30 (100)
Specific Heat Capacity $c$ [J/(kg*K)]	2.100
Compressive strength at 10% compression [N/mm <sup>2</sup> ]	0.07
Compressive strength [kPa]	70
Tensile strength perpendicular to the board [kPa]	≥ 10
Length related flow resistance [(kPa*s)/m <sup>2</sup> ]	≥ 100
Ingredients	wood fibre, polyurethane resin, paraffin wax
Waste Code (EAK)	030105/170201

## ALL THE ADVANTAGES ON NATURAL WOOD



STEICO<sup>top</sup> is manufactured from natural wood fibres in strict accordance with FSC guidance.

Cutting may be carried out using conventional woodworking tools, e.g. hand-saws, electric saws. The product is 'user friendly' and should not irritate the skin, either during or after installation.



**STEICO**  
natural building products

Your STEICO Agent:

[www.steico.co.uk](http://www.steico.co.uk)