

Environmentally-friendly insulation system  
made from natural wood fibres



## AREAS OF APPLICATION

flexible cavity insulation in roof-,  
dry wall- and floor constructions

cavity insulation for partition walls,  
external walls and service zones



- Flexible thermal insulation
- Non-irritant to skin
- Good compression resistance
- Expands to fit adjoining components
- Prevention of thermal bridges
- Excellent insulation properties in winter and summer
- Water vapour open for a healthy room environment
- Helps to regulate the indoor climate
- Provides a green architectural solution
- Easy handling
- Ecological and environmentally friendly, recyclable

For more information please visit our website at [www.steico.com](http://www.steico.com)



### STORAGE/TRANSPORT

STEICOflex must be kept dry.  
In case of moisture ingress please dry immediately and prevent further moisture uptake

STEICOflex should be stored flat on a level surface

Transport packaging should only be removed when the pallet is on a safe and level surface

### AREAS OF APPLICATION

(according to national regulations)

between rafter and joist insulation,  
dry wall insulation and loft insulation

insulation of timber frame structures  
wall insulation

internal partition wall insulation

## WOOD – NATURE'S ETERNAL GIFT

As a sustainable building material, wood is known for its excellent qualities, both thermally and ecologically. With STEICOflex, decades of experience and innovative engineering processes have been combined, to take advantage of the natural insulation properties of wood as a raw material.

Using STEICOflex – the ecological, wood based insulation – makes an immediate contribution to the reduction of CO<sub>2</sub>. Only wood from forest thinning and saw mill residues are used for the production of STEICOflex in an efficient process.

### Ingredients

STEICOflex is a pure ecological product, consisting solely of wood fibres, polyolefin fibre (a high quality binding fibre which can be found in nappies), and ammonium phosphate (for fire protection).

## HANDLING

STEICOflex is lightweight, easy to handle and a non-irritant to skin. Combined with its excellent insulation properties STEICOflex is the first choice for ecologically focused professionals and self builders.

## ACCESSOIRES

Make your work with STEICOflex even more straightforward with one of our recommended tools:

### Cutting with STEICO's custom made insulation knife

STEICO's insulation knife is ideal for the precise and rapid cutting of STEICOflex insulation.

Fine adjustments can be made with the blade, using minimum effort, as the cutting force is distributed evenly over the whole of the blade. In particular, STEICOflex insulation strips can be produced accurately and efficiently.



Even the best blades dull when used repeatedly. The STEICO insulation knife can easily be resharpened with a standard whetstone. The STEICO special knife is efficient for cutting insulation board thicknesses up to 100 mm

### Cutting using an electric jigsaw

STEICOflex insulation boards of a thickness up to 100 mm can also easily be cut with an electric jigsaw – this is a recommended method for all other higher density STEICO wood fibre boards like STEICOtherm or STEICOuniversal. Best results can be achieved using a corrugated sawblade.





### Cutting using an electric saw

The most efficient method for cutting all STEICOflex thicknesses is to use an electric saw. Best results are achieved by using a corrugated sawblade which provides clean edges and reduces dust emission to a minimum. Recommendation: Corrugated sawblade TF 350 WM for electric saw GFZ 14/16 35 A from Bosch; vendor: [www.goetschi-isolation.ch](http://www.goetschi-isolation.ch)



For volume insulation projects as well as increasing cutting precision, the electric saw can be mounted onto a vertical table creating a vertical panel saw. Due to the adjustable guides both squareness and straight cuts may be achieved without further adjustment. Precise cutting of insulation fillets is possible. The vertical panel saw can be moved easily and this provides flexibility and time savings for all kinds of construction sites.

#### TIP

Where STEICOflex is fitted in the winter months a vapour barrier should be fitted immediately on the room side of the construction to prevent moisture uptake by the insulation.

## ADDITIONAL INFORMATION

### Safety instructions

As STEICOflex consists of natural wood fibres, cutting will produce some (harmless) dust. For dust control, please use effective dust extractors and refer to your local dust control regulations. When mounting the flexible insulation boards overhead wear suitable personal protective equipment.

### Maximum bearing distance

The standard width of STEICOflex for timber frame constructions is based on a grid of 600mm and a stud or joist width of 38mm. When using the boards in a horizontal direction it is possible to fill greater voids. The maximum bearing distance of STEICOflex depends on the thickness of the boards.

### Waste prevention

To reduce waste it is also possible to fill the voids using off cuts of two cut to size boards. Waste residue (to a minor degree) may even be composted.

### Widths

STEICOflex should be cut with an over-measure. This ensures that STEICOflex can expand to fully fill the void. For DIY users we recommend the use of 2 x 100mm STEICOflex sheets for an insulation thickness of 200 mm.

### Maximum thermal load

Downlighters which reach surface temperatures in excess of 100°C must not be in direct contact with STEICOflex. Downlighter covers should be fitted where required.

The following span widths can be achieved:

Insulation thickness [mm]	Max. span width [mm]
40	450
50	475
60	500
80	550
100	600
120	650
140	700
160	750
180	800
200	850

## PACKAGING

### STEICOflex sheets

Thickness [mm]	Dimensions [mm]	Weight/m <sup>2</sup> [kg]	Pieces / Package	Packages / Pallet	Surface / Pallet [m <sup>2</sup> ]	Weight/Pal. [kg]
40	1220 x 575	2,0	10	12	84,18	ca. 186
50	1220 x 575	2,5	9	10	63,13	ca. 186
60	1220 x 575	3,0	8	10	56,12	ca. 186
80	1220 x 575	3,6	6	10	42,09	ca. 170
100	1220 x 575	4,5	4	12	33,67	ca. 170
120	1220 x 575	5,4	4	10	28,06	ca. 175
140	1220 x 575	6,3	4	8	22,45	ca. 160
160	1220 x 575	7,2	3	10	21,05	ca. 170
180	1220 x 575	9,0	3	8	18,84	ca. 190
200	1220 x 575	12,0	2	12	18,84	ca. 245

### STEICOflex wedges

Thickness [mm]	Dimensions [mm]	Weight/m <sup>2</sup> [kg]	Pieces / Package	Packages / Pallet	Surface / Pallet [m <sup>2</sup> ]	Weight/Pal. [kg]
60	1220 x 670	3,0	16	10	65,40	ca. 215
80	1220 x 670	3,6	12	10	49,05	ca. 195
100	1220 x 670	4,5	8	12	39,24	ca. 195
120	1220 x 670	5,4	8	10	32,70	ca. 195
140	1220 x 670	6,3	8	8	26,16	ca. 185
160	1220 x 670	7,2	6	10	24,52	ca. 195
180	1220 x 670	9,0	6	8	19,62	ca. 195
200	1220 x 670	12,0	4	13	19,62	ca. 255

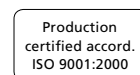
### STEICOflex for dry lining

Thickness [mm]	Dimensions [mm]	Weight/m <sup>2</sup> [kg]	Pieces / Package	Packages / Pallet	Surface / Pallet [m <sup>2</sup> ]	Weight/Pal. [kg]
40	1220 x 625	2,0	10	12	91,50	ca. 200
60	1220 x 625	3,0	8	10	61,00	ca. 200
80	1220 x 625	3,6	6	10	45,72	ca. 185

special dimensions from 550 to 3100 mm on request

## CHARACTERISTIC VALUES STEICOflex

Produced and supervised according to EN 13171	
Board designation	WF – EN 13171 – T2 – TR1 – AF5
Fire class according to EN 13501-1	E
Building materials class acc. to DIN 4102	B2
Declared thermal conductivity $\lambda_D$ [W/(m*K)]	0,038
Declared thermal resistance $R_D$ [(m <sup>2</sup> *K)/W]	1,05 / 1,30 / 1,55 / 2,10 / 2,60 / 3,15 / 3,65 / 4,20 / 4,70 / 5,25
Thickness [mm]	40 / 50 / 60 / 80 / 100 / 120 / 140 / 160 / 180 / 200
Density [kg/m <sup>3</sup> ]	ca. 50
Water vapour diffusion resistance value $\mu$	1/2
Specific heat capacity $c$ [J/(kg*K)]	2100
Declared level of airflow resistance [(kPa*s)/m <sup>2</sup> ] $\geq$	5
Waste code (EAK-Code)	030105



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