



| 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
- Easy handling and classified as non-irritant to skin
- Good compression strength
- Expands to fit adjoining components
- 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
- Ecological and environmentally-friendly, fully recycleable

For more information please visit our website at www.steico.co.uk







| HEAT PROTECTION

STEICOflex makes a significant contribution to your comfort at home due to its excellent insulation performance in winter. STEICOflex provides optimum heat protection for your whole structure including walls, ceilings and roofs.

In addition, thanks to its low thermal conductivity and high heat capacity, STEICOflex also protects your house against overheating in summer. The high material density of approximately 50 kg/m³ and the high specific heat capacity of 2100 J/kgK (more than twice as high as mineral wool) provide heat insulation on the hottest days.

| MORE VITALITY IN A HEALTHY ROOM ENVIRONMENT

Whether you feel really comfortable within your own four walls depends on many factors but the right environmental climate is definitely a key factor, so are pleasant temperature, optimum humidity and fresh air.

| 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

STEICOflex consists of natural wood fibres and demonstrates all the advantages of wood as a natural building material. This flexible insulation board has a water vapour open structure, so that water vapour can pass through to the ventilated cavity - in a similar way to breathable fabrics.

Wood fibres have a much higher capacity to retain moisture than conventional insulating materials. As a result, STEICOflex makes a contribution to the regulation of the air humidity (e.g. when



installed as inner wall insulation). Additionally, its high capacity to retain moisture prevents condensation risks. The entire construction is safeguarded against interstitial condensation.

Using STEICOflex for both external or internal insulation, sound is effectively absorbed. Furthermore, due to its strong compression resistance and expansion characteristics, STEICOflex contributes to the elimination of the airborne sound permanently by ensuring that all voids remain filled.







| ECOLOGY

The raw material for all STEICO wood fibre insulating materials originates from sustainable forestry, which complies with the strict requirements of the FSC® (Forest Stewardship Council). The goal of the FSC® is the promotion of environmentally-friendly, socially responsible and economically sustainable forest management. Consequently those using STEICOflex make a significant contribution to climate protection.

An average tree stores approximately 1 tonne of CO₂ during its growth and at the same time produces 0.7 tonnes of oxygen. The CO₂ stored in the trees in the form of carbon remains in the finished product - while the replanted trees continue to absorb the greenhouse gas CO₂ from the atmosphere.

| MACHINING - SIMPLE AND NON ALLERGENIC

STEICOflex is characterised by good compression resistance as well as dimensional stability. Cut sizes maintain their form and are safe to install even when done so overhead. Thanks to the flexible structure of the insulation material, smaller unevenness can easily be levelled.



As with all STEICO natural fibre insulating materials, STEICOflex is particularly user friendly and will not knowingly cause itching or scratching - whether during cutting or installing. In order to make simple and uncomplicated cuts, it is best to use a special STEICO insulation knife or an electric all purpose saw (recommendation: Bosch GFZA14-35). Custom made insulation knives available direct from STEICO.

STEICOflex is installed into voids using minimum pressure (cut the board

10 mm oversize to assist friction fitting). For ,Do-It-Yourself' users we recommend the use of 2 × 100 mm STEICOflex sheets for an insulation thickness of 200 mm.

STEICOflex's standard widths are appropriate for general timber frames centres. Off cuts may be used to fill small voids to minimize wastage. To fill wider voids install the boards in a horizontal direction.

RAW MATERIALS

The raw material for STEICOflex comes from thinnings of surrounding pine forests and from saw mill residue.

No conventional formaldehyde or PMDI binders are used in the production of STEICO wood fibre insulating materials. Based on this, STEICOflex falls far below the minimum value of 0.1parts per million for formaldehyde emissions, required by the World Health Organisation (WHO).

Due to the constant control of raw materials during the production and by third party supervision, STEICO products are certified as emission free and non hazardous.

| TIP

When STEICOflex is fitted in winter months, a vapour barrier should be fitted immediately to the inside face to prevent moisture uptake by the insulation.







| PACKAGING STEICOflex

STEICO*flex* sheets

Thickness [mm]	Dimensions [mm]	Weight/m² [kg]	Pieces / Package	Packages / Pallet	Coverage / Pallet [m²]	Approximate weight/Pal. [kg]
20*	1220 * 575	1.00	24	10	168.4	186
30◆	1220 * 575	1.50	16	10	112.2	186
40	1220 * 575	2.00	10	12	84.2	186
50	1220 * 575	2.50	9	10	63.1	186
60	1220 * 575	3.00	8	10	56.1	186
80	1220 * 575	4.00	6	10	42.1	170
100	1220 * 575	5.00	4	12	33.7	170
120	1220 * 575	6.00	4	10	28.1	175
140	1220 * 575	7.00	4	8	22.0	160
160	1220 * 575	8.00	3	10	21.0	170
180	1220 * 575	9.00	3	8	16.8	190
200	1220 * 575	10.00	2	12	16.8	200
220	1220 * 575	11.00	2	10	15.4	170
240	1220 * 575	12.00	2	10	14.0	175

[◆] non-standard item – availability on request

| CHARACTERISTIC VALUES STEICOflex

| ADVICES

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 once the pallet is on a safe and level surface

For dust extraction please refer to national requirements

Produced and supervised according to	EN 13171			
Board designation	WF – EN 13171 – T3 – TR1 – AF5			
Fire class according to EN 13501-1	E			
Declared thermal conductivity				
$\lambda_D [W/(m*K)]$	0,038			
	0.50 (20) / 0.75 (30) / 1.05 (40) / 1.30 (50) /			
Declared thermal resistance	1.55 (60) / 2.10 (80) / 2.60 (100) / 3.15 (120) /			
$R_D[(m^2*K)/W]$	3.65 (140) / 4.20 (160) / 4.70 (180) / 5.25 (200) /			
	5.75 (220) / 6.30 (240)			
Density [kg/m³]	ca. 50			
Water vapour diffusion resistance value $\boldsymbol{\mu}$	1/2			
Specific heat capacity c [J/(kg*K)]	2100			
Declared level of airflow resistance				
[(kPa*s)/m²]	≥ 5			
Ingredients	wood fibres, polyolefin fibres,			
	ammonium phosphate			
Waste code (EAK)	030105/170201			













Your STEICO Agent

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