

Fibertherm flex 60

Flexible thermal insulation from wood

Beton  **Wood**

Environmentally-friendly insulation system
made from natural wood fibres



AREAS OF APPLICATION

Flexible insulating panels in roof, wall and ceiling constructions.

Cavity insulation for partition walls, facing shells and installation levels.



MATERIAL

Wood fiber insulation board produced according to DIN EN 13171, with continuous quality control.

The wood used comes from well-managed forests and is independently certified according to the guidelines of the FSC® (Forest Stewardship Council®).

Respect the rules in force for the treatment of powders.

- Lowest thermal conductivity available on flexible wood fiber panels
- Improved fiber structure, higher strength, low dust formation
- Excellent clamping capability, excellent fit to limiting components
- Easy to work with, especially kind to the skin
- Excellent insulation properties in winter and summer
- Particularly open to diffusion for protection of the construction
- Excellent clamping capability, excellent fit to limiting components
- Helps to regulate the indoor climate
- Ecological and environmentally-friendly, fully recyclable
- Construction material tested and authorized according to current European standards
- Made from FSC® certified woodfibre

For more informations about the uses and the installation,
our offices are ready to answer your questions on www.fibradilegno.com



FiberTherm flex 60

The new dimensions of our wood fiber insulation

With the lowest thermal conductivity (0,036 W/mK) of all known natural insulating materials, FiberTherm flex 60 opens up completely new possibilities in the insulation of particularly energy-efficient buildings.



Natural, untreated softwood is the basis for FiberTherm flex 60. Ecological quality for future-oriented construction projects.

THE BEST NATURAL INSULATING MATERIAL

FiberTherm flex 60 insulating panels are made of natural softwood and therefore also have all the advantages of the natural building material wood.

This makes FiberTherm flex 60 the ideal insulation for those who want to combine high-tech with living health and climate protection.

The wood used for insulating panels FiberTherm comes from responsibly managed forests that are certified according to the strict rules of the FSC® (Forest Stewardship Council) and the PEFC™.



Das Zeichen für verantwortungsvolle Waldwirtschaft



Förderung nachhaltiger Waldwirtschaft
www.pefc.de

BETTER PROTECTION AGAINST COLD IN WINTER



Low thermal conductivity means higher insulation efficiency. With a thermal conductivity of only 0.036 λ_D [W / (m * K)] FiberTherm flex 60 has the lowest value of all known natural insulating materials.

This allows particularly efficient insulation solutions to be carried out. With FiberTherm flex 60 you realize optimum thermal insulation and create warmth in winter.

| MORE EFFICIENT HEAT PROTECTION IN SUMMER



FiberTherm flex 60 not only has a low thermal conductivity, but with a bulk density of approx. 60 kg / m³ also has a particularly high heat storage capacity. This combination protects your rooms from overheating in summer.

Thus FiberTherm insulation supports a restful sleep in cool rooms even on the hottest days.

| LIGHT STRUCTURES, EFFICIENT RENOVATION



The low thermal conductivity is the guarantee for slim roof and wall constructions. For renovations, on the other hand, the low thermal conductivity allows the existing insulation options to be used even more efficiently.

| ECOLOGICAL INSULATION, A HEALTHY LIFE



FiberTherm flex 60 is made of fresh softwood without questionable additives. The moisture-regulating properties of wood fibers make an important contribution to a building biologically advantageous indoor climate.

This makes FiberTherm flex 60 ideal for sensitive people and allergy sufferers. With FiberTherm natural insulation you can enjoy cozy warmth, even in the dead of winter.

| PERMANENTLY SAFE BUILDINGS

As all the FiberTherm insulating materials, FiberTherm flex 60 is also particularly open to diffusion and sorbent at the same time.

Thanks to this intelligent moisture management, FiberTherm wood fiber insulation materials prevent the formation of critical moisture. The construction remains permanently dry and protected.

| EXCELLENT INSTALLATION AND FACILITY



The quality can be noticed already during the processing.

The new FiberTherm flex 60 has a denser, more homogeneous fiber structure. The insulating panels are therefore particularly stable and clampable. They adhere securely in the compartment and stay there permanently in shape.

The new FiberTherm flex 60 can be easily processed with wood tools, a jig saw or an electric sword saw (with serrated blade).

Insulation thicknesses up to 240 mm thick can be cut quickly, cleanly and optimized for cutting.

Thanks to the new fiber structure, FiberTherm flex 60 is also extremely dust-free during processing. Like all FiberTherm insulation materials, FiberTherm flex 60 036 is particularly skin-friendly.



Wood as raw material

The raw material for FiberTherm flex 60 is exclusively fresh thinning and sawing wood from our surrounding pine forests

In the production of FiberTherm wood fiber insulation materials, no conventional formaldehyde-containing binders are used.

The standard value of 0.1 ppm for formaldehyde, which is currently required by the WHO, can be far below that of FiberTherm.

Due to constant control of the ingredients, FiberTherm products are classified as emission-free and therefore harmless construction products.

Clamping table

Fibertherm flex 60

Panel thickness [mm]	Maximum load [mm]
40 mm	450 mm
50 mm	475 mm
60 mm	500 mm
80 mm	565 mm
100 mm	600 mm
120 mm	650 mm
140 mm	700 mm
160 mm	750 mm
180 mm	800 mm
200 mm	850 mm
220 mm	900 mm
240 mm	950 mm

Thickness (mm)	Dimension (mm)	Weight / m ² (kg)	Panels / Package	Packages / Pallet	Surface/Pallet(m ²)	Weight / Pallet (kg)
20	1.220 * 575	1,20	24	10	168,4	ca. 227
30	1.220 * 575	1,80	16	10	112,2	ca. 227
40	1.220 * 575	2,40	10	12	84,2	ca. 227
50	1.220 * 575	3,00	9	10	63,1	ca. 215
60	1.220 * 575	3,60	8	10	56,1	ca. 227
80	1.220 * 575	4,80	6	10	42,1	ca. 227
100	1.220 * 575	6,00	4	12	33,7	ca. 227
120	1.220 * 575	7,20	4	10	28,1	ca. 227
140	1.220 * 575	8,40	4	8	22,4	ca. 214
160	1.220 * 575	9,60	3	10	21,0	ca. 227
180	1.220 * 575	10,80	3	8	16,8	ca. 207
200	1.220 * 575	12,00	2	12	16,8	ca. 227
220	1.220 * 575	13,20	2	10	14,0	ca. 210
240	1.220 * 575	14,40	2	10	14,0	ca. 226

| USES

standard DIN 4108-10: 2015

Inter-rafter insulation, double-skin roof, non-accessible but accessible top floor	DZ
Interior insulation of the ceiling (below) or the roof, insulation under the rafters / supporting structure, suspended ceiling, etc.	DI - zk
Interior insulation of the wall	WH
Interior insulation of the wall	WI - zk
Insulation of room partitions	WTR

Pressure load capacity: dk = none
Tensile strength: zk = none

| TECHNICAL CHARACTERISTICS

Fibertherm flex 60

Produced and monitored according to	DIN EN 13171
Board marking	WF – EN 13171 – T3 – TR1 – AF5
Fire reaction class according to EN 13501-1	E
Declared thermal conductivity λ_D [W / (m * K)]	0,036
Nominal thermal resistance R_D [(m ² * K) / W]	0,55(20) / 0,80(30) / 1,10(40) / 1,35(50) / 1,65(60) / 2,20(80) / 2,75(100) / 3,30(120) / 3,85(140) / 4,40(160) / 5,00(180) / 5,55(200) / 6,10(220) / 6,65(240)
Rated value thermal conductivity λ [W / (m * K)]	0,038 (according to approval Z-23.15-1452)
Density [kg / m ³]	ab. 60
Water vapor diffusion resistance factor μ	1/2
Specific heat capacity c [J / (kg * K)]	2.100
[(kPa * s) / m ²]	≥ 5
Waste code (EAK)	030105/170201, Disposal such as wood and wood-based materials
Raw materials	Wood fiber, polyolefin fiber, ammonium sulfate

| NOTES

Please do not remove the transport packaging until the pallet is on firm, level ground.

Insulation packages are to be stored without high loads and stored dry.

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