





# **GUTEX**® Thermofloor Data Sheet



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**GUTEX Thermofloor** is a very versatile impact insulation board for all floor applications, including wet and dry screed. It is suitable for live loads of up to 5 kN/m<sup>2</sup> on screed.

Technical Data	Thermofloor
Joint type	Butted
Thickness (mm)	21/20; 31/30
Length x width (mm)	1200 x 600
Square metres per board (m <sup>2</sup> )	0.72
Weight per m <sup>2</sup> (kg)	3.4/5.0
Weight per board (kg)	2.4/3.6
Boards per pallet	180/120
Square metres per pallet (m <sup>2</sup> )	129.6/86.4
Weight per pallet (kg)	450
Bulk density (kg/m <sup>3</sup> )	160
Dynamic stiffness (MN/m <sup>3</sup> )	30
Nominal thermal conductivity $\lambda_D$ (W/mK)	0.039
Nominal thermal resistance $R_D$ (m <sup>2</sup> K/W)	0.50/0.80
Thermal resistance R (m <sup>2</sup> K/W)	0.48/0.71
Vapour diffusion factor ( $\mu$ )	5
sd-value (m)	0.11/0.16
Air flow resistivity (kPa sm <sup>3</sup> )*	100
Compressibility with live loads $\leq$ 5kPa	$\leq$ 2
Specific heat capacity (J/kgK)	2100
Fire reaction Euro Class as per DIN EN 13501-1	E
   	

Designation:WF-EN13171-T6-SD30-CP2-MU5-AF100

\*Approval No. 23.15-1404.

German disposal category:A2 (treated wood; without non-halogenated organic compounds); code number as per AVV:030105; 170201

## Composition

Manufactured from untreated Black Forest spruce and fir

- Additives: 4% sodium silicate content used in 31/30 mm thick boards for the two-ply laminated construction.

## Applications

**For air, impact and thermal insulation under:**

- Wet screed (cement, anhydrite, etc.)
- Mastic asphalt
- Dry screed

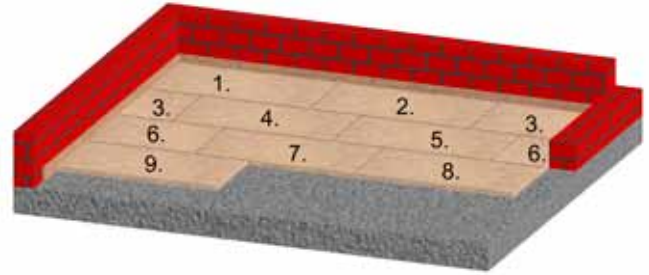
## Advantages

- Superb air and impact insulation
- Optimum thermal insulation
- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in winter.
- Broad application diversity
- Regulates humidity
- Water vapour diffusion permeable
- Quick and easy installation
- Wood is a sustainable, recyclable natural resource.
- Made in Germany
- Biologically safe (natureplus® certified)

## Installation

- Store and install this product dry.
- Suitable for single or double layer (with offset joints) with max. total build-up thickness of 60 mm (see table below).
- If higher insulation built-up heights are required, use GUTEX Thermosafe-wd (max. 100 mm).
- Substrate must be dry, even and technically sound.
- If required, install a moisture barrier.
- Ceilings with exposed wood joists require trickle protection paper.
- Edge stripping must be as high as the total built-up height of the floor.
- To cut the boards, use GUTEX saw blades for jigsaws or circular saws and a vacuum fitting.
- Install staggered, using the oddment of the last board of a row to start the next row (refer to layout plan).
- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.

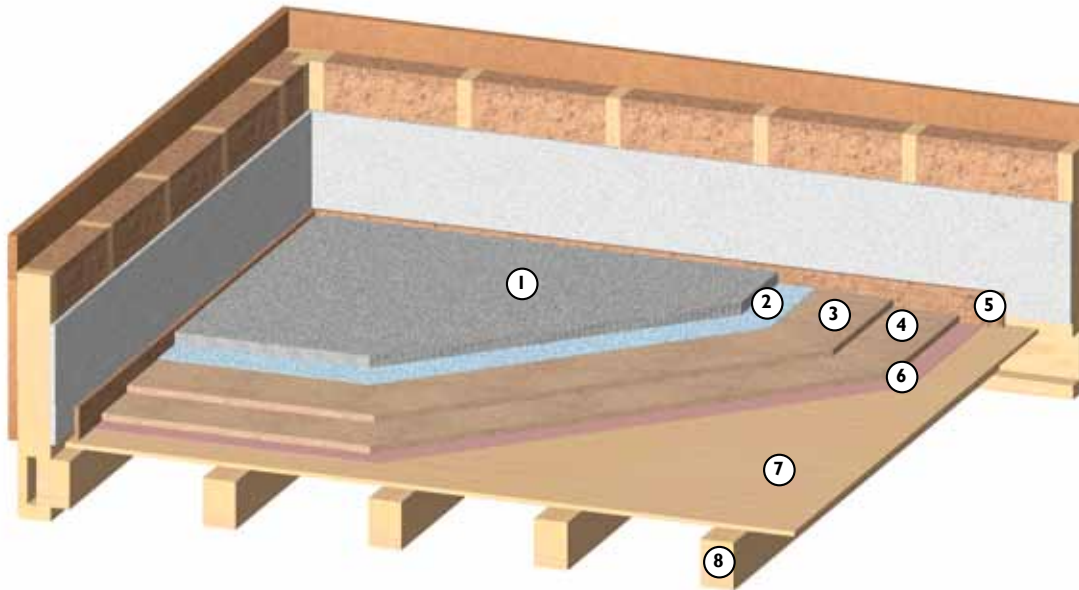
## Layout Pattern



## Insulating Material Overlay

Over GUTEX Thermofloor	Max. Built-up Height
Wet screed (cement, anhydrite, etc.)	60 mm (two 31/30 mm)
Mastic asphalt	60 mm (two 31/30 mm)
Sub-floor fibreboard $\geq 25$ mm	30 mm (one 31/30 mm)
OSB board $\geq 22$ mm	30 mm (one 31/30 mm)
Gypsum screed element	20 mm (one 21/20 mm)

## Floor Construction



- |                              |                              |
|------------------------------|------------------------------|
| ① Wet screed                 | ⑤ Edge strips                |
| ② Moisture barrier           | ⑥ Trickle protection barrier |
| ③ GUTEX Thermofloor 31/30 mm | ⑦ Exposed liner              |
| ④ GUTEX Thermofloor 31/30 mm | ⑧ Visible joists             |

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information renders the old information invalid.

The suitability of this product for applications not specified in this data sheet is not guaranteed.

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NATURALLY MADE FROM WOOD