

Technical data sheet

Gutex Thermosafe WD

Gutex Thermosafe WD is the pressure-resistant wood fibre insulation board for internal floor and wall structures with a load capacity of up to 5 kN/m².

Ingredients

- Untreated fir and spruce wood
- 4.0 % PUR resin (polyurethane resin)

Waste disposal

- Waste code numbers according to AVV: 030105, 170201



Technical data

Bulk density ρ [kg/m³]	~ 170
Nominal thermal conductivity λ_D [W/mK]	0.043
Vapour diffusion μ	3
Compressive stress/strength [kPa]	≥ 150
Compressibility at payload ≤5 kPa [mm]	≤ 1
Air flow resistivity [kPa s/m²]	≥ 100
Specific heat capacity [J/kgK]	2,100
Maximum working temperature [°C]	110
Product standard	EN 13171:2012+A1:2015
Board designation	WF-EN13171-T7-CP1-CS(10/Y)150-MU3-AFr100

Technical data sheet

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Joint type	flush-mount					
Thickness [mm]	20	30	40	60	80	120
Length x width [mm x mm]	1300 x 600					
Cover dimensions: length x width [mm x mm]	1300 x 600					
Coverage: square metres per panel [m ²]	0.78					
m ² /Piece(s)	0.78					
Weight per board [kg]	2.65	3.98	5.3	7.96	10.61	15.91
Weight per m ² [kg]	3.40	5.10	6.80	10.20	13.60	20.40
Items per pallet	220	144	110	72	54	36
Square metres per pallet [m ²]	171.60	112.32	85.80	56.16	42.12	28.08
Weight per pallet [kg]	690	610	620			670
Nominal thermal resistance R _D [m ² K/W]	0.45	0.65	0.90	1.35	1.85	2.75
sd value [m]	0.06	0.09	0.12	0.18	0.24	0.36

Technical data sheet

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Advantages

- Excellent thermal insulation
- Excellent heat storage capacity → high protection against summer heat
- Improvement of sound insulation
- Moisture regulating and vapour permeable
- Pressure resistant
- Wood is a sustainable raw material → recyclable
- Made in Germany (Black Forest)
- Biologically safe (natureplus® certified)

Note

Gutex Thermosafe-wd is a universal insulation board that impresses with its high compressive strength and a load capacity of up to 5 kN/m². This makes it a stable basis for load-bearing floor constructions. Thermosafe-wd is also versatile in other ways: it is ideal for retrofitting insulation in the top floor ceiling and for insulating roofs and walls from the inside. As a diffusion-open and moisture-regulating insulation board made from ecological wood fiber, Thermosafe-wd contributes to a healthy indoor climate and ensures year-round living comfort: protection from heat in summer, protection from cold in winter, and noticeable sound reduction. The natureplus-certified insulation board is proven to be biologically safe and recyclable – contributing to the sustainable insulation of old and new buildings.

Processing instructions

- Store and process panels in a dry place.
- When working with multiple layers, stagger the joints.
- Avoid cross joints.
- The panels can be cut to size using the following tools, among others:
 - Gutex cutting blades for jigsaws
 - Festool reciprocating saws
 - Mafell DSS 300 cc
 - Band saws or circular saws with extraction
- Create a dry, level, and technically sound substrate.
- Protect from moisture.
- Apply edge strips at the height of the entire structure.
- When used under mastic asphalt screeds, Gutex Thermosafe-wd can withstand short-term installation temperatures of up to 230 °C.
- Legal requirements for handling wood dust must be observed.

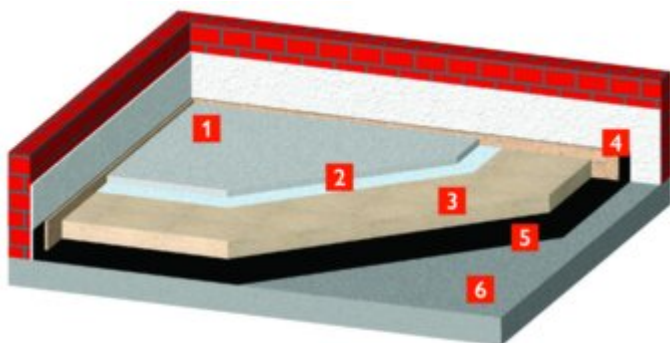
Maximum built-up height

Covering on GUTEX Thermosafe-wd	Maximum built-up height GUTEX Thermosafe-wd
Wet screed	140 mm
Mastic asphalt	140 mm
Chipboard ≥ 25 mm	140 mm
OSB board ≥ 22 mm	140 mm
GUTEX Thermosafe-nf	100 mm
Dry screed element ≥ 25 mm	100 mm
Prefinished engineered wood flooring ≥ 14 mm	30 mm
Laminate flooring ≥ 8 mm	20 mm

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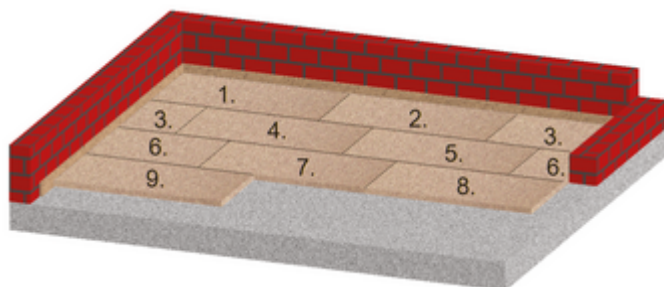
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Soil structure



- 1 Wet screed
- 2 Moisture-protection film
- 3 Gutex Thermosafe-wd
- 4 Edge strip
- 5 Moisture barrier as per 18195
- 6 Basement ceiling

Laying pattern



Laying Thermosafe-wd in a composite pattern

The remaining piece from one row of tiles is placed at the beginning of the next row (see laying pattern).