



GUTEX Thermoflat

TECHNICAL DATA SHEET



GUTEX Thermoflat is the pressure-resistant wood fibre insulation board for flat roofs made of wood, concrete, or sheet metal.

Ingredients

- Untreated fir and spruce
- 4.0 % PUR resin
- 1.5 % paraffin

Disposal

- Waste code numbers as per AVV
030105, 170201

Bulk density ρ [kg/m ³]	~ 140
Nominal thermal conductivity λ_D [W/mK]	0.040
Vapour diffusion μ	3
Compressive stress/strength [kPa]	≥ 70
Tensile strength perpendicular to the surface [kPa]	≥ 7.5
Short-term water absorption [kg/m ²]	≤ 1
Air flow resistivity [kPa s/m ²]	≥ 100
Specific heat capacity [J/kgK]	2100
Maximum working temperature [°C]	110
Fire reaction Euro Class as per EN 13501-1	E
Product standard	EN 13171
Board designation	WF-EN13171-T4-CS(10/Y)70-TR7,5-MU3-AF ₁₀₀





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Detailed information

Joint type	Rebate joint			
Thickness [mm]	100	120	140	160
Length × width [mm × mm]	1230 × 600			
Actual coverage: Length × width [mm × mm]	1215 × 585			
Actual coverage: Square metres per board [m ²]	0.71			
m ² /Piece(s)	0.73			
Weight per board [kg]	10.30	12.40	14.50	16.50
Weight per m ² [kg]	14.00	16.80	19.60	22.40
Piece(s)/Pallet	44	36	32	28
Square metres per pallet [m ²]	32.47	26.56	23.61	20.66
Weight per pallet [kg]	490			
Nominal thermal resistance R _D [m ² K/W]	2.50	3.00	3.50	4.00
sd value [m]	0.30	0.36	0.42	0.48





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PRODUCT INFORMATION

Areas of use

- Insulation of flat roof constructions on wood, concrete, and sheet metal structures

Advantages

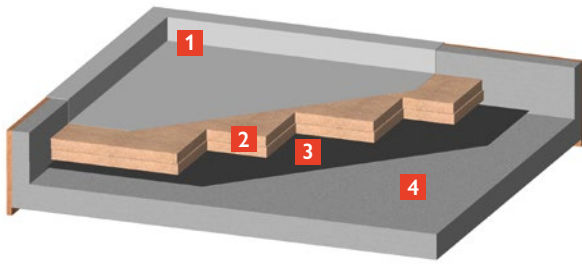
- Outstanding thermal insulation
- All-round rebate joint profiling → avoidance of thermal bridges
- Outstanding heat storage capacity → protection from heat in summer and cold in winter
- Improvement of sound insulation
- Moisture-regulating
- Steam vapour-permeable
- Able to withstand pressure
- Wood as the sustainable raw material → recyclable
- Manufactured in the direct vicinity of Switzerland (Waldshut, Black Forest)
- Ecologically safe (natureplus® certified)

Installation instructions

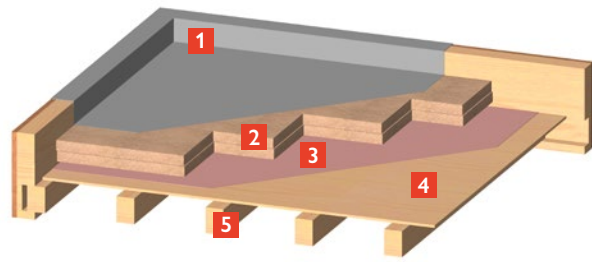
- Store and work with the boards in a dry place
- Avoid cross joints
- The following are some of the tools that may be used to produce the cut:
 - Festool sword saws
 - Mafell DSS 300 cc
 - Band or circular saws with extraction unit
- Create a dry, level, and technically perfect substrate
- The insulation layer must be protected from moisture
- The boards must be protected from wind suction during installation
- Note the legal requirements for handling wood dust



Example flat roof construction *



- 1 Sealing film mechanically fastened
- 2 GUTEX Thermoflat
- 3 Vapour barrier
- 4 Concrete/sheet metal substrate



- 1 Sealing film mechanically fastened
- 2 GUTEX Thermoflat
- 3 Vapour barrier moisture-variable/air seal
- 4 Exposed concrete formwork
- 5 Exposed beam layer

* These constructions must be structurally verified.

Fastening

- With bare roofs, the insulation board is protected from wind during installation. The fastening is carried out with installation of the sealing film.
- With gravel roofs and roofs with a terrace, only edge fastening is necessary.
- Fastening techniques are to be applied according to the manufacturer of the sealing membranes.