

Technical data sheet

Gutex Thermosafe-homogen



Gutex Thermosafe-homogen is the universal wood fibre insulation board with outstanding insulation properties for roofs, façades, and floor ceilings.

Ingredients

- Untreated fir and spruce
- 4.0 % PUR resin
- 0.5 % paraffin

Disposal

- Waste code numbers as per AVV
030105, 170201

Bulk density ρ [kg/m ³]	~ 110
Nominal thermal conductivity λ_D [W/mK]	0.037
Vapour diffusion μ	4
Compressive stress/strength [kPa]	≥ 50
Tensile strength perpendicular to the surface [kPa]	≥ 5
Short-term water absorption [kg/m ²]	≤ 2
Air flow resistivity [kPa s/m ²]	≥ 60
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-WS2,0-CS(10/Y)50-TR5-MU4-AF,35



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Joint type	Flush-mount				
Thickness [mm]	40	60	80	100	120
Length × width [mm × mm]	1200 × 625				
m ² /Piece(s)	0.75				
Weight per board [kg]	3.30	4.95	6.60	8.25	9.90
Weight per m ² [kg]	4.40	6.60	8.80	11.00	13.20
Piece(s)/Pallet	112	70	56	42	36
Square metres per pallet [m ²]	84.00	52.50	42.00	31.50	27.00
Weight per pallet [kg]	430	390			
Nominal thermal resistance R _D [m ² K/W]	1.05	1.60	2.15	2.70	3.20
sd value [m]	0.16	0.24	0.32	0.40	0.48

Joint type	Rebate joint					
Thickness [mm]	140	160	180	200	220	240
Length × width [mm × mm]	1200 × 625					
Actual coverage: Length × width [mm × mm]	1185 × 610					
Actual coverage: Square metres per board [m ²]	0.72					
m ² /Piece(s)	0.75					
Weight per board [kg]	11.55	13.20	14.85	16.50	18.15	19.80
Weight per m ² [kg]	15.40	17.60	19.80	22.00	24.20	26.40
Piece(s)/Pallet	32	28	24	22	20	18
Square metres per pallet [m ²]	24.00	21.00	18.00	16.50	15.00	13.50
Weight per pallet [kg]	390					
Nominal thermal resistance R _D [m ² K/W]	3.75	4.30	4.85	5.40	5.90	6.45
sd value [m]	0.56	0.64	0.72	0.80	0.88	0.96



Product information

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Areas of use

- On-roof insulation on full-surface substrate
- Between-rafter insulation
- Insulation of the top floor ceiling
- Insulation of timber frame and timber panel construction
- Insulation of solid wood walls and masonry (rainscreen façade)
- Lightweight partitions

Advantages

- Optimum thermal insulation
- Outstanding heat storage capacity → protection from heat in summer and cold in winter
- Excellent sound insulation
- Moisture-regulating
- Steam vapour-permeable
- Easy to work with
- Wood as the sustainable raw material → recyclable
- Manufactured in the direct vicinity of Switzerland (Waldshut, Black Forest)
- Ecologically safe (natureplus® certified)

Installation instructions

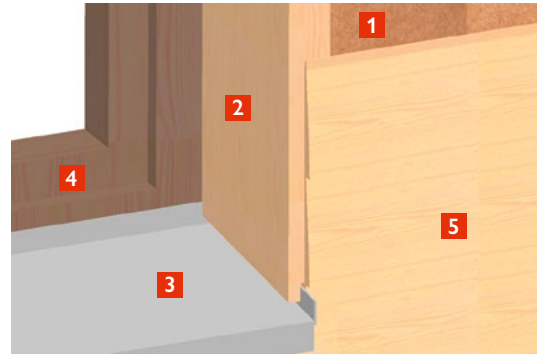
- Store and work with the boards in a dry place
- Installation only on a full-surface substrate
- Lay several layers in a staggered pattern
- Avoid cross joints
- Can only be used in floors under wet screed up to max. 60 mm. For other constructions, see Gutex Thermosafe-wd and Gutex Thermofloor
- The 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
- After installation, the board must be fastened and immediately protected with weather protection (depending on application, e.g. Gutex Multiplex-top or Gutex Thermowall).
- For fastening with on-roof insulation or a rainscreen façade, the 'Screw dimensioning' forms can be found at www.gutex.de/service/bemessung-verbindungsmittel
- Note the legal requirements for handling wood dust

Details rainscreen façade



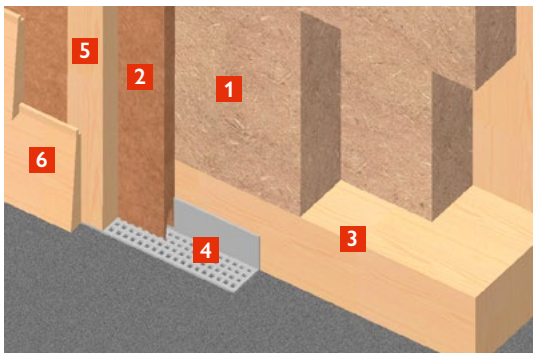
Reveal joint

- 1 Gutex Thermosafe-homogen
- 2 Gutex Multiplex-top/Gutex Ultratherm/Gutex Multitherm
- 3 Sealing tape
- 4 Reveal board
- 5 Counterlathing/rear ventilation
- 6 Wood façade



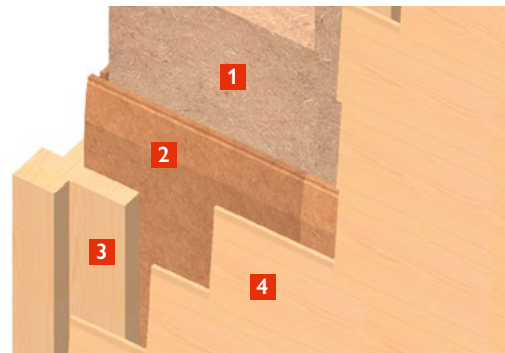
Window sill joint

- 1 Gutex Thermosafe-homogen
- 2 Gutex Multiplex-top/Gutex Ultratherm/Gutex Multitherm
- 3 Window sill
- 4 Window frame
- 5 Wood façade



Plinth/wall joint

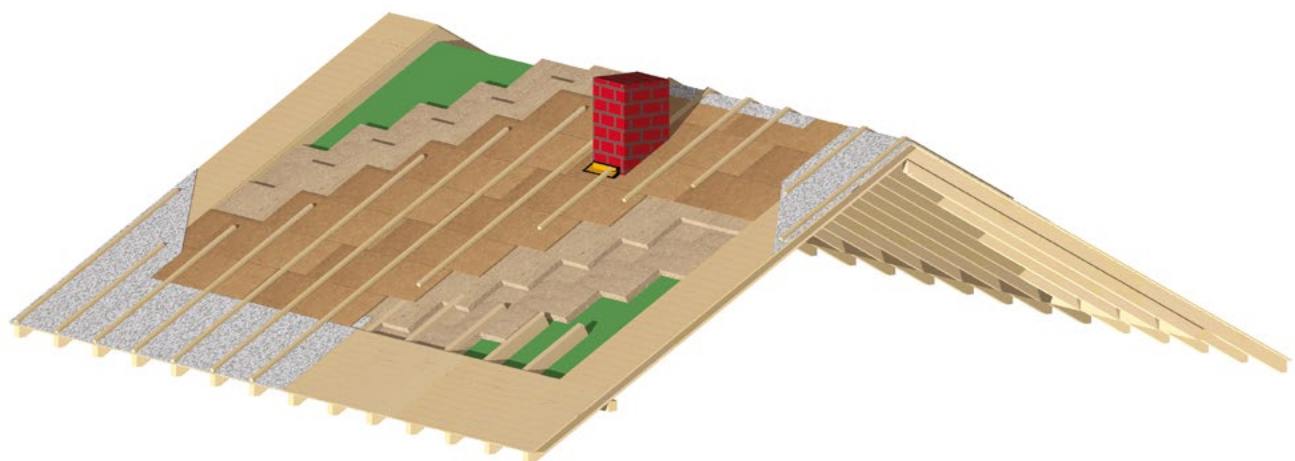
- 1 Gutex Thermosafe-homogen
- 2 Gutex Multiplex-top/Gutex Ultratherm/Gutex Multitherm
- 3 Plate
- 4 Air grate
- 5 Counterlathing/rear ventilation
- 6 Wood façade



Corner/wall joint

- 1 Gutex Thermosafe-homogen
- 2 Gutex Multiplex-top/Gutex Ultratherm/Gutex Multitherm
- 3 Corner profile
- 4 Wood façade

Details roof



Penetration joint

- 1 Gutex Multiplex-top/Gutex Ultratherm
- 2 Gutex adhesive system
- 3 Gutex caulking



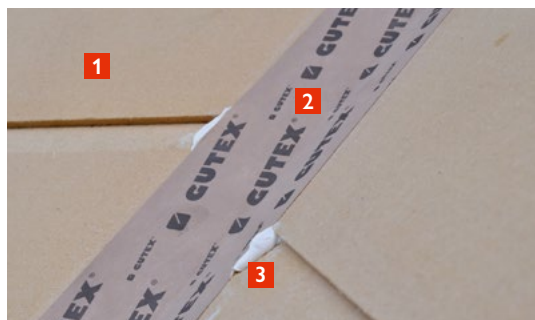
Ridge

- 1 Gutex Multiplex-top/Gutex Ultratherm
- 2 Sarking
- 3 Counterlathing



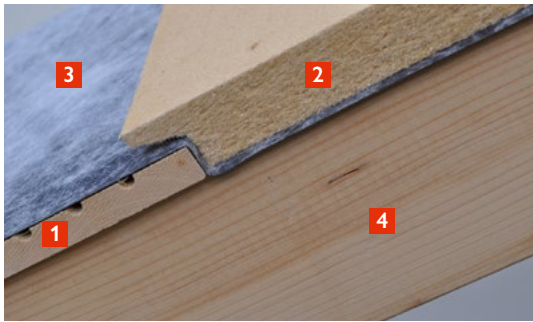
Verge

- 1 Gutex Multiplex-top/Gutex Ultratherm
- 2 Gutex caulking
- 3 Sarking
- 4 Counterlathing



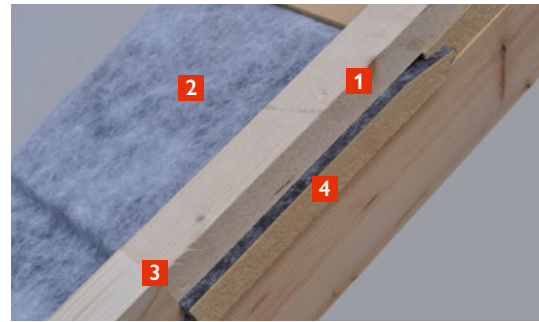
Valley

- 1 Gutex Multiplex-top/Gutex Ultratherm
- 2 Gutex adhesive system
- 3 Gutex caulking



Eaves 1. Variant

- 1** Canopy formwork
- 2** Gutex Multiplex-top/Gutex Ultratherm
- 3** Sarking
- 4** Dummy rafter



Eaves 2. Variant

- 1** Gutex Multiplex-top/Gutex Ultratherm
- 2** Sarking
- 3** Counterlathing
- 4** Dummy rafter

