






GUTEX® Thermosafe-homogen Data Sheet



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GUTEX Thermosafe-homogen, a universal insulating board with single-ply construction and homogenous cross section, provides superb protection against the heat in summer and loss of heat in winter.

Technical Data	Thermosafe-homogen	
	Butted	Rebate
Joint type	Butted	Rebate
Thickness (mm)	40/60/80/ 100/120	140/160/ 180/ 200/220/240
Length x width (mm)	1200 x 625	1200 x 625
Actual coverage, length x width (mm)		1185 x 610 (0.712m ²)
Square metres per board (m ²)	0.75	0.75
Weight per board (kg)	3.3/5.0/6.6/ 8.3/9.9	11.6/13.2/14.9/ 16.5/18.2/19.8
Weight per m ² (kg)	4.4/6.6/8.8/ 11/13.2	15.4/17.6/19.8/22 24.2/26.4
Boards per pallet	112/70/56/42/ 36	32/28/24/22/20/ 18
Square metres per pallet (m ²)	84/52.5/42/ 31.5/27	24/21/18/16.5/ 15.0/13.5
Weight per pallet (kg)	450 (40 mm) to 390	
Bulk density (kg/m ³)	110	110
Nominal thermal conductivity λ_D (W/mK)	0.037	0.037
Nominal thermal resistance R_D (m ² K/W)	1.08/1.62/ 2.16/ 2.70/3.24	3.78/4.32/4.86/ 5.41/5.95/6.49
Vapour diffusion factor (μ)	3	3
sd-value (m)	0.12/0.18/ 0.24/ 0.30/0.36/	0.42/0.48/0.54/ 0.60/0.66/0.72
Compressive stress/ strength (kPa)	40	40
Tensile strength perpendicular to board surface (kPa)	10	10
Air flow resistivity (kPa s/m ³)	100	100
Short-term water absorption (kg/m ²)	≤ 2.0	≤ 2.0
Specific heat capacity (J/kgK)	2100	2100
Fire reaction Euro Class as per DIN EN 13501-1	E	E
    		

Designation: WF-EN13171-T4-WS 2.0-CS(10/Y)40-MU3-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:
 - 4.0 % polyurethane resin (binder)
 - 0.5% paraffin (hydrophobic agent)

Applications

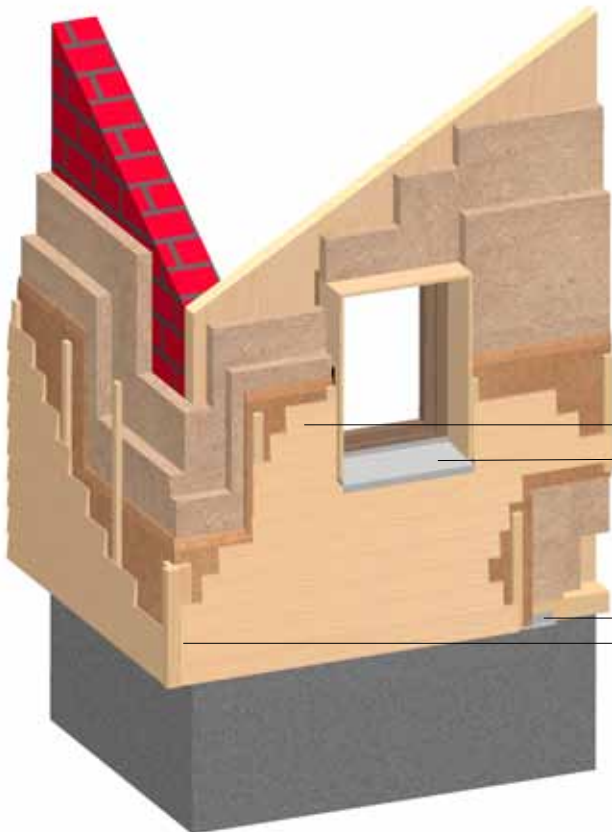
- Above rafter insulation with full surface contact to substrate
- Between rafter insulation
- Interior insulation of floors
- Insulation of timber frame and prefab modular house sections
- Insulation of top storey ceilings
- Insulation of solid wood walls (e.g. over sheathing) and masonry walls (vented facades)
- Lightweight partition walls

Advantages

- Optimum thermal insulation
- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in winter.
- Improves acoustic insulation
- Regulates humidity
- Water vapour diffusion permeable
- Lightly treated with a hydrophobic agent
- Quick and easy installation
- Suitable substructure in GUTEX Thermowall/-plus composite thermal insulation system. Refer to the GUTEX brochure "Composite Thermal Insulation System".
- Wood is a sustainable, recyclable natural resource
- Made in Germany
- Biologically safe (natureplus® certified)

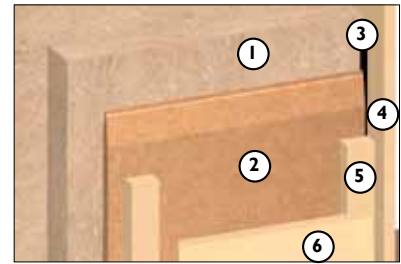
Installation

- Store and install this product dry.
- Offset the joints if installing multiple layers.
- Avoid cross joints.
- Install with full surface contact to substrate
- Use only with GUTEX Multiplex-top, GUTEX Ultratherm (above rafter insulation) or GUTEX Multitherm (vented facades).
- Do not exceed board thickness of 60 mm under wet screed. For further floor constructions, see GUTEX Thermosafe-wd and GUTEX Thermofloor.
- For best cutting results, use a GUTEX saw or GUTEX blades for jigsaws or circular saws and a vacuum fitting.
- GUTEX will perform an analysis of your specific roof requirements and provide you with the fixation data.
- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.



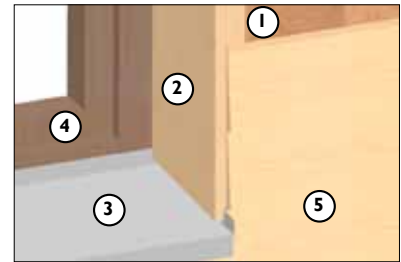
Vented Facade Detail

Reveal



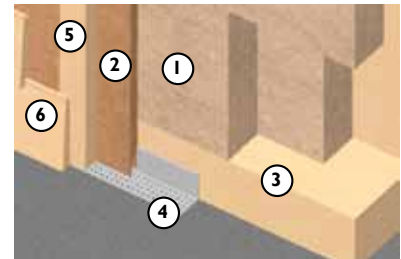
- ① GUTEX Thermosafe-homogen
- ② GUTEX Multitherm
- ③ Sealing strip
- ④ Window jamb
- ⑤ Cross battens/Venting
- ⑥ Timber cladding

Window Sill



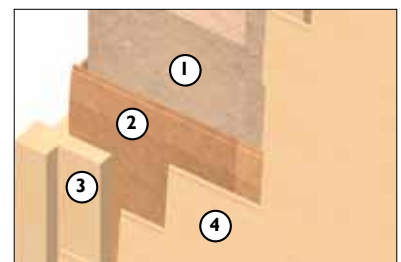
- ① GUTEX Multitherm
- ② Window jamb
- ③ Window sill
- ④ Window frame
- ⑤ Timber cladding

Foundation/Wall



- ① GUTEX Thermosafe-homogen
- ② GUTEX Multitherm
- ③ Plate
- ④ Air grate
- ⑤ Cross battens/Venting
- ⑥ Timber cladding

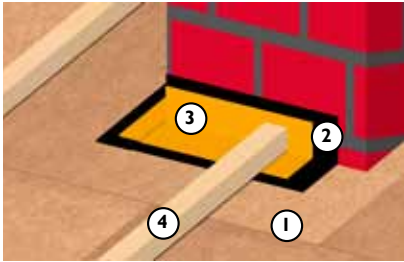
Corner/Wall



- ① GUTEX Thermosafe-homogen
- ② GUTEX Multitherm
- ③ Corner bead
- ④ Timber cladding

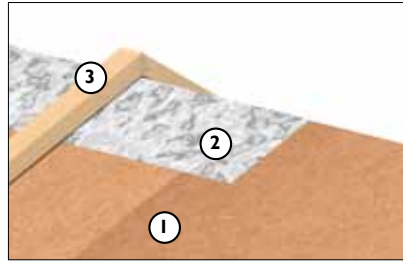
Above Rafter Insulation Detail

Roof Interruptions



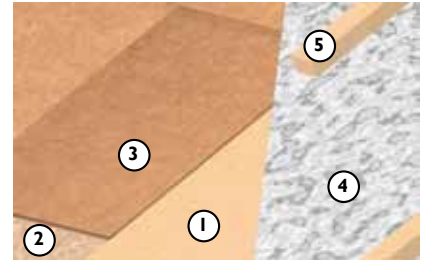
- ① GUTEX Multiplex-top/GUTEX Ultratherm
- ② GUTEX Primer
- ③ GUTEX Joint Tape
- ④ Cross battens

Ridges

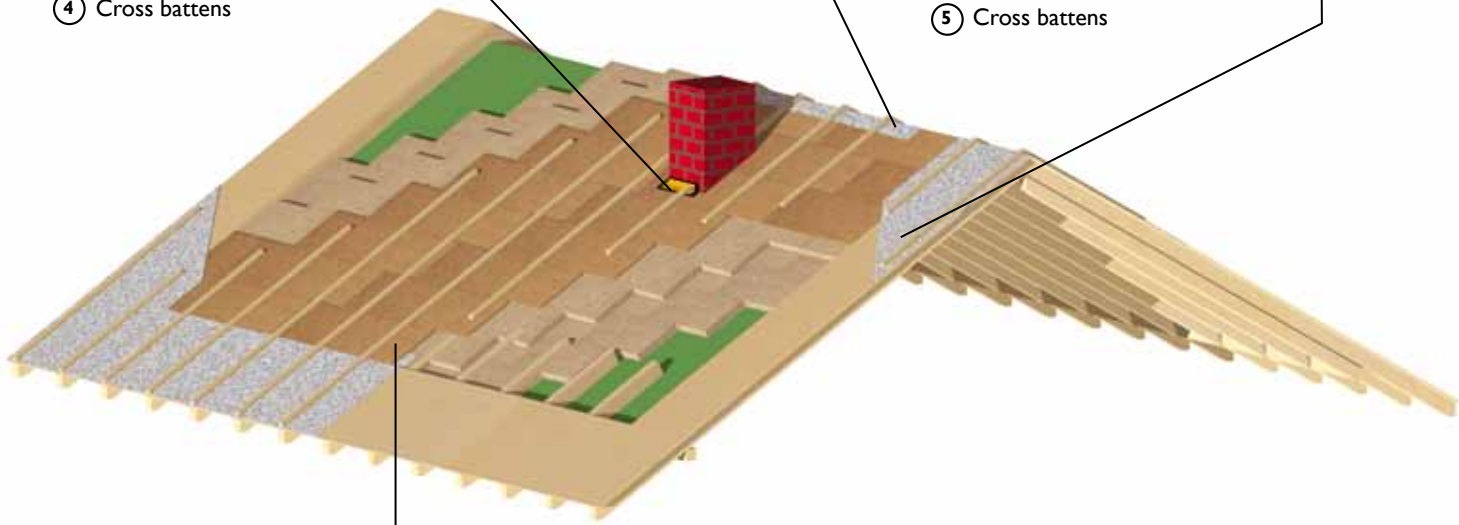


- ① GUTEX Multiplex-top/GUTEX Ultratherm
- ② Vapour permeable roofing felt
- ③ Cross battens

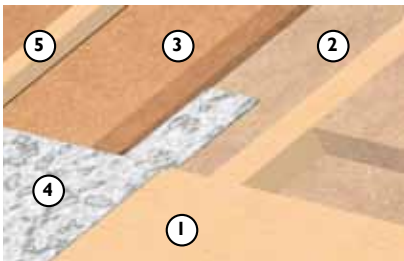
Gable Ends



- ① Sheathing of exterior overhang
- ② GUTEX Thermosafe-homogen
- ③ GUTEX Multiplex-top/GUTEX Ultratherm
- ④ Vapour permeable roofing felt
- ⑤ Cross battens

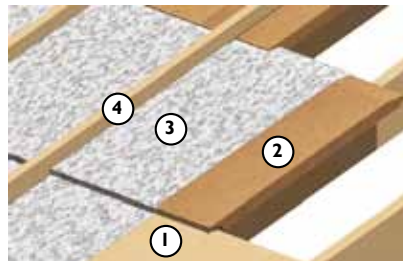


Eaves Variation 1



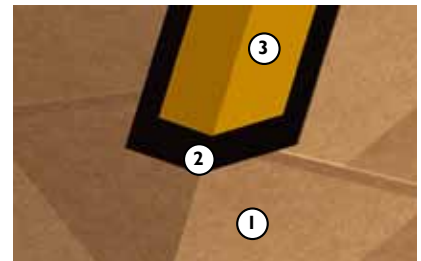
- ① Sheathing of exterior overhang
- ② GUTEX Thermosafe-homogen
- ③ GUTEX Multiplex-top/GUTEX Ultratherm
- ④ Vapour permeable roofing felt
- ⑤ Cross battens

Eaves Variation 2



- ① Sheathing of exterior overhang
- ② GUTEX Multiplex-top/GUTEX Ultratherm
- ③ Vapour permeable roofing felt
- ④ Cross battens

Valleys



- ① GUTEX Multiplex-top/GUTEX Ultratherm
- ② GUTEX Primer
- ③ GUTEX Joint Tape

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NATURALLY MADE FROM WOOD