

GUTEX® Thermoflex Data Sheet



Fotos: GUTEX Archiv, HUF-Haus

GUTEX Thermoflex is a flexible wood fibreboard that is designed for use between rafters and in timber-framed walls.

Technical data	Thermoflex
Joint	blunt
Thickness (mm)	40/60/80/100/120/140/ 160/180/200/220/240
Length x width (mm)	1220 x 575
Bulk density (kg/m ³)	45
Square metres per board (m ²)	0.70
Weight per board (kg)	1.26/1.89/2.52/3.15/3.7/ 4.41/5.04/5.67/6.3/6.90/ 7.58
Weight per m ² (kg)	1.8/2.7/3.6/4.5/5.4/6.3/7.2/ 8.1/ 9.0/9.9/10.8
Pieces per packet	8/5/4/3/3/2/2/2/2/-/-
Packets per pallet	14/14/14/14/12/16/14/ 12/10/-/-
Boards per pallet	112/70/56/42/36/32/28/ 24/20/22/20
Square metres dimensions per pallet (m ²)	78.57/49.11/39.28/29.46/25.25/ 22.45/19.64/16.84/14.03/15.43/ 14.03
Weight per pallet (kg)	200
Thermal conductivity λ_D (W/mK)	0.038
Thermal conductivity R_D (m ² K/W)	1.05/1.58/2.11/2.63/3.16/3.68/ 4.21/4.74/5.36/5.79/6.32
Vapour diffusion factor (μ)	1-2
sd-value (m)	0.08/0.12/0.16/0.2/0.24/ 0.28/ 0.32/0.36/0.4/0.44/ 0.48
Air flow resistivity (kPa s/m ³)	5
Specific heat capacity(J/kgK)	2100
max. operating temperatur	100°C
Fire reaction rating as per EN 13501-1 (European Classification)	E



Designation: WF-EN13171-T2-AF5

Composition

- Softwood obtained using sustainable forestry practices
- Additives:
Polyolefin binding agent
Ammonium polyphosphate compound as flame retardant

Applications

- Timber frame, post and beam interior and exterior wall structures
- Between rafter insulation
- Ceiling insulation
- Partitions/ drywall structures

Advantages:

- Inherent elasticity makes it extremely adaptable
- Provides excellent thermal insulation
- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in winter.
- Improves acoustic insulation
- Quick and easy installation
- Regulates humidity
- Water vapour diffusion permeable
- Wood is a sustainable, recyclable natural resource
- Biologically safe (natureplus® certified)

Installation

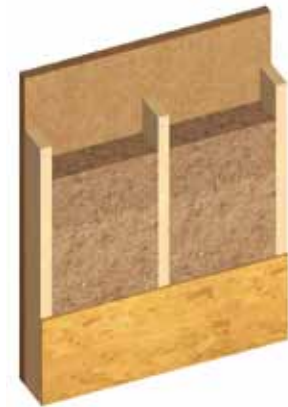
General

- Store and install this product dry.
- Protect this product against moisture.
- Do not stack the pallets one upon another.
- Cut with power handsaw, jigsaw or GUTEX Thermoflex knife.
- Use either masonry or metal drill at highest rpm.
- A hole saw may be used to cut holes for flush electrical sockets or holes for pipes.
- Vacuum off the dust in accordance

Between Wood Studs or Joists

- Cut oversized in both length and width (refer to table on next page) and wedge into place.
- Oversized dimensions ensure tight joints.
- For best sound insulation performance, fill wall spaces with GUTEX Thermoflex interior up to 80 percent instead of 100 percent.
- To minimise waste, two pieces can be wedged between the uprights etc.,

Example:



- GUTEX Thermowall/-gf
- GUTEX Thermoflex between rafters
- OSB Board

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Cramping

Board Thickness	Maximal Board Width
40 mm	450 mm
60 mm	500 mm
80 mm	570 mm
100 mm	600 mm
120 mm	650 mm
140 mm	700 mm
160 mm	750 mm
180 mm	800 mm
200 mm	850 mm
220 mm	900 mm
240 mm	950 mm

- Depending on the construction, the state of the rafters/joists as well as the roof pitch, you may have to adjust the above figures by increasing or decreasing them slightly.
- In general, the boards should be cut 5 - 10 mm oversize. If the boards are cut too large, they may buckle outwards when installed.
- Sheets installed in roofs or ceilings have to be secured within three days to prevent them

Between Metal Studs

Stud Width	Board Thickness
50 mm	40 mm
75 mm	60 mm
100 mm	80 mm
125 mm	100 mm

- The metal studs are flat on one side and u-shaped on the other side to hold the board. With the exception of the very last upright, all of the uprights (studs) are installed with their u-shaped openings pointing in the same direction. The last stud installs, so that it faces the opposite direction. The board that fits into this upright must be installed first.
- Insert the insulating board, position the stud, and fix in place.
- Install the remainder of the boards.

The suitability of this product for application not specified in this data sheet is not guaranteed. Warranty and liability claims are subject to the terms of Gutex's General Terms of Business.



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