Technical data sheet

Gutex Thermoflex

Gutex Thermoflex is the flexible wood fibre insulation mat for insulation between rafters and in cavities.

Ingredients

- Untreated fir and spruce wood
- 5,0 % textile binding fibre
- 6,00 % Ammonium salts

Waste disposal

- Waste code numbers according to AVV: 030105, 170201

Technical data

Bulk density ρ [kg/m³]	~ 50
Nominal thermal conductivity λ_D [W/mK]	0,036
Vapour diffusion μ	2
Tensile strength perpendicular to the panel plane [kPa]	≥ 1
Air flow resistivity [kPa s/m²]	≥ 5
Specific heat capacity [J/kgK]	2.100
Maximum working temperature [°C]	110
Fire reaction Euro Class as per EN 13501-1	E
Product standard	EN 13171:2012+A1:2015
Board designation	WF-EN 13171-T3-TR1-MU2-AFr5

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Product details

Joint type	flush-mount				
Thickness [mm]	30	40	50	60	80
Length × width [mm × mm]	1350 x 575				
Cover dimensions: length × width [mm × mm]	1350 x 575				
Coverage: square metres per panel [m²]	0,78				
m² per unit	0,78				
m² per packet	9,32	6,21	6,99	6,21	4,66
Weight per board [kg]	1,17	1,56	1,95	2,34	3,12
Weight per m² [kg]	1,50	2,00	2,50	3,00	4,00
Items per pack	12	8	9	8	6
Packages per pallet	12	14	10		
Items per pallet	144	112	90	80	60
Square metres per pallet [m²]	111,78	86,94	69,86	62,10	46,58
Weight per pallet [kg]	200				
Nominal thermal resistance R_D [m²K/W]	0,80	1,10	1,35	1,65	2,20
sd value [m]	0,06	0,08	0,10	0,12	0,16

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Product details

Joint type	flush-mount			
Thickness [mm]	100	120	140	160
Length × width [mm × mm]	1350 x 575			
Cover dimensions: length × width [mm × mm]	1350 x 575			
Coverage: square metres per panel [m²]	0,78			
m² per unit	0,78			
m² per packet	3,11			2,33
Weight per board [kg]	3,9	4,68	5,46	6,24
Weight per m² [kg]	5,00	6,00	7,00	8,00
Items per pack	4			3
Packages per pallet	12	10	8	10
Items per pallet	48	40	32	30
Square metres per pallet [m²]	37,26	31,05	24,84	23,29
Weight per pallet [kg]	200			
Nominal thermal resistance R_D [m²K/W]	2,75	3,30	3,85	4,40
sd value [m]	0,20	0,24	0,28	0,32

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Product details

Joint type	flush-mount			
Thickness [mm]	180	200	220	240
Length × width [mm × mm]	1350 x 575			
Cover dimensions: length × width [mm × mm]	1350 x 575			
Coverage: square metres per panel [m²]	0,78			
m² per unit	0,78			
m² per packet	2,33	1,55		
Weight per board [kg]	7,02	7,8	8,58	9,36
Weight per m² [kg]	9,00	10,00	11,00	12,00
Items per pack	3	2		
Packages per pallet	8	12	10	
Items per pallet	24		20	
Square metres per pallet [m²]	18,63		15,53	
Weight per pallet [kg]	200			
Nominal thermal resistance R_D [m²K/W]	5,00	5,55	6,10	6,65
sd value [m]	0,36	0,40	0,44	0,48

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Areas of application

- Between wooden stands on interior and exterior walls
- Insulation between rafters
- Ceiling insulation
- Partition walls/drywall construction

Advantages

- Adaptable, as it is flexible and elastic
- Excellent thermal insulation
- Excellent specific heat capacity → protection against summer heat and winter cold
- High sound insulation
- Simple and quick processing
- Moisture regulating
- Vapour permeable
- Wood is a sustainable raw material → recyclable
- Biologically safe for buildings

Processing instructions

General

- Store and handle panels in a dry place
- Protect from moisture
- Do not stack pallets on top of each other
- Cutting can be done using the following tools, among others:
  - Electric handsaw (Bosch) or Alligator (DeWalt)
  - Festool ISC 240 insulation saw or reciprocating saws
  - Mafell DSS 300 cc
  - Gutex Thermoflex knife
  - Band saws or circular saws with dust extraction
- Drill with metal or masonry drill bits at full speed
- Holes for flush-mounted boxes or pipe penetrations can be drilled using hole saws
- Gutex Thermoflex can be exposed to temperatures of up to 100°C even for extended periods. Exposure to open flames must be prevented at all times. Furthermore, we recommend enclosing local heat sources such as recessed lights using suitable boxes
- Legal requirements regarding the handling of wood dust must be observed

Between wooden studs or beams

- Cut to size with extra length and width and clamp in place
- Edge gaps are prevented by compressing the panel
- For sound insulation, filling 80% of the space between the wooden studs with GUTEX Thermoflex is beneficial
- By taking the excess allowance into account when cutting, two pieces can also be clamped side by side, thereby minimizing waste.
- Depending on the construction and nature of the rafters/ceiling beams, as well as the roof pitch, the values may vary upward or downward.
- The clamping allowance is ≥ 1% of the clear width of the bay. This must also be observed in the longitudinal direction of the bay.
- Installed panels in the roof and ceiling areas must be secured against falling out after no later than 3 days

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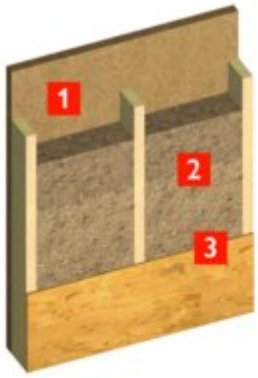
Between metal studs

- Insulate the end sections with the CW profiles facing each other first
- Position the insulation, adjust the profiles to their final position, and then fasten them
- Then insulate the remaining sections

Further installation instructions and the clamping tables can be found on our product page under the "Application" tab.

Detailed designs

Design proposal



1 Gutex Thermowall/Gutex Thermowall-gf
2 Gutex Thermoflex between studs
3 OSB board