

Technical data sheet

Gutex Thermoinstal

Gutex Thermoinstal is the pressure-resistant wood fibre insulation board for installation levels.

Ingredients

- Untreated fir and spruce wood
- 4,0 % PUR resin (polyurethane resin)

Waste disposal

- Waste code numbers according to AVV: 030105, 170201



Technical data

Bulk density ρ [kg/m³]	~ 150
Nominal thermal conductivity λ_D [W/mK]	0,040
Vapour diffusion μ	3
Compressive stress/strength [kPa]	≥ 100
Tensile strength perpendicular to the panel plane [kPa]	≥ 10
Air flow resistivity [kPa s/m²]	≥ 100
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-EN13171-T4-CS(10/Y)100-TR10-MU3-AFr100

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Product details

Joint type	flush-mount
Thickness [mm]	50
Length × width [mm × mm]	1250 x 600
Cover dimensions: length × width [mm × mm]	1250 x 600
Coverage: square metres per panel [m ²]	0,75
m ² per unit	0,75
Weight per board [kg]	5,63
Weight per m ² [kg]	7,50
Items per pallet	84
Square metres per pallet [m ²]	63,00
Weight per pallet [kg]	520
Nominal thermal resistance R _D [m ² K/W]	1,25
sd value [m]	0,15

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Areas of application

- Compression Resistant Insulation Layer to accommodate services
- Insulation of timber frame and timber panel construction

Advantages

- Optimal thermal insulation
- Excellent heat storage capacity → good protection against summer heat and winter cold
- High sound insulation
- Moisture regulating and vapour permeable
- Reducing thermal bridges
- Pressure resistant
- Wood is a sustainable raw material → recyclable
- Made in Germany (Black Forest)
- Biologically safe (natureplus® certified)

Processing instructions

- Store and install the boards in a dry environment
- Avoid cross joints
- Cut to size using, for example, a hand-held circular saw with a dust extraction system
- Fix to a load-bearing wood-based panel ≥ 15 mm
- Ensure the substrate is dry, level and structurally sound
- Protect from moisture (take construction moisture into account!)
- Legal requirements regarding the handling of wood dust must be observed

Detailed designs

Processing



Step 1:
Install GUTEX Thermoinstal over the entire surface and free of voids, and fasten with staples, screws, or nails



Step 2:
Mill installation channels with wood-working machines



Step 3:
Lay and fasten the installations



Step 4:
Apply interior boarding (min. 12.5 mm thick) over the entire surface and free of voids, and fasten in the substrate with e.g. plasterboard screws (75 mm). Screw spacing: every 150 mm at 62.5 cm intervals