






GUTEX® Thermoinstal Data Sheet



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GUTEX Thermoinstal, a compression resistant insulation board with single-ply construction and homogenous cross section, is ideal for the thermal insulation of installation cavities, electrical and plumbing lines.

Technical Data	Thermoinstal
Joint type	Butted
Thickness (mm)	50
Length x width (mm)	1250 x 600
Square metres per sheet (m ²)	0.75
Weight per sheet (kg)	5.6
Weight per m ² (kg)	7.5
Boards per pallet	84
Square metres per pallet (m ²)	63
Weight per pallet (kg)	480
Bulk density (kg/m ³)	150
Nominal thermal conductivity λ_D (W/mK)	0.039
Nominal thermal resistance R_D (m ² K/W)	1.28
Vapour diffusion factor (μ)	3
sd-value (m)	0.15
Compressive stress/ strength (kPa)	100
Tensile strength perpendicular to board surface (kPa)	10
Air flow resistivity (kPa s/m ³)	100
Specific heat capacity (J/kgK)	2100
Fire reaction Euro Class as per DIN EN 13501-1	E
    	

Composition

- Manufactured from untreated Black Forest spruce and fir
- Additive: 4 % polyurethane resin (binder)

Applications

- To create a continuous thermal insulation layer for service cavities, plumbing and electrical lines
- Insulation of timber frame and prefab modular house sections

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 and is vapour diffusion permeable
- Significantly reduces thermal bridging
- Compression resistant
- Wood is a sustainable, recyclable natural resource.
- Made in Germany
- Biologically safe (natureplus® certified)

Designation: WF-EN13171-T4-CS(10/Y)100-TR10-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

Installation

- Store and install this product dry.
- Avoid cross joints.
- For best cutting results, use a GUTEX saw or GUTEX blades for jigsaws or handheld circular saws and a vacuum fitting.
- Substrate must be dry, even and technically sound.
- Protect this product against moisture.
- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.

Installation Detail



Step 1:
Install GUTEX Thermo-
instal, with full uninter-
rupted surface contact to
the substrate, using staples,
screws or nails.



Step 2:
Cut the slots for the lines
in the GUTEX Thermo-
instal board with an
appropriate wood cutting
tool.



Step 3:
Install the plumbing or
electrical lines, fastening
them securely.



Step 4:
Completely cover with wall
board (at least 12.5 mm),
fastening it securely to the
substrate with gypsum board
screws (75 mm), etc. Install
the screws 150 mm apart
along the timber studs and
62.5 cm on-centre.

Suggested Constructions



- Plasterboard (at least 12.5 mm)
- **GUTEX Thermoinstal**
50 mm
- OSB board (air barrier) \geq 15 mm
- GUTEX Thermoflex between
timber studs/uprights
- **GUTEX Multiplex-top/
GUTEX Ultratherm**
- Cross battens
- Battens
- Timber cladding (vertical)



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- **GUTEX Thermowall/-gf**
- **GUTEX Stucco/Render
System**

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NATURALLY MADE FROM WOOD