





GUTEX® Thermosafe-wd Data Sheet



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Technical Data	Thermosafe-wd	
	Butted	Rebate
Joint type	Butted	Rebate
Thickness (mm)	20/30/40/60/ 80/100/ 120	140/160
Length x width (mm)	1250 x 600	1250 x 600
Actual coverage (mm)	1250 x 600	1235 x 585
Square metres per board (m ²)	0.75	0.75
Weight per board (kg)	2.1/3.2/4.2/ 6.3/8.4/10.5 /12.6	14.7/16.8
Weight per m ² (kg)	2.8/4.2/5.6/ 8.4/11.2/14/ 16.8	19.6/22.4
Boards per pallet	220/140/ 108/72/ 54/44/36	32/28
Square metres per pallet (m ²)	165/105/81/ 54/ 40.5/ 33/27	24/21
Weight per pallet (kg)	490	490
Bulk density (kg/m ³)	140	140
Nominal thermal conductivity λ_D (W/mK)	0.039	0.039
Nominal thermal resistance R_D (m ² K/W)	0.51/0.77/ 1.03/1.54/ 2.05/2.56/3.0	3.59/4.10
Vapour diffusion factor (μ)	3	3
sd-value (m)	0.06/0.09/ 0.12/0.18/ 0.24/0.30/0.36	0.42/0.48
Compressive stress/strength (kPa)	70	70
Tensile strength perpendicular to board surface (kPa)	10	10
Air flow resistivity (kPa s/m ³)	100	100
Specific heat capacity (J/kgK)	2100	2100
Fire reaction Euro Class as per DIN EN 13501-1	E	E

GUTEX Thermosafe-wd, an insulating board with singly construction and homogenous cross section, features exceptionally high compression resistance. It is ideal for any wall or floor structure.

Composition

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

Applications

- Insulation under screed and floor coverings
- Above and between rafter insulation
- Interior insulation of ceilings, walls, floors or roofs
- Insulation of timber frame and prefab modular house sections
- Insulation of top storey ceilings

Advantages

- Excellent thermal insulation properties: $\lambda=0.042$ W/mK
- Outstanding thermal storage capacity provides excellent insulation against heat in the summer and cold in winter
- Significantly improves soundproofing
- Regulates humidity and is vapour diffusion permeable
- Compression resistant
- Manufactured from wood, a sustainable, recyclable natural resource
- Made in Germany
- Biologically safe (natureplus® certified)

Designation: WF-EN 13171-T4-CS(10/Y)70-TR10-MU3-AF100.

* Approval number: 23.15-1404.

German disposal category: A2 (treated wood; without non-halogenated organic compounds); code number as per AVV:030105; 170201

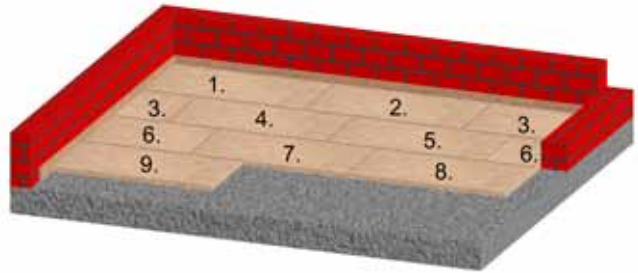
Installation

- Store and install this product dry.
- Offset the joints if installing multiple layers.
- Avoid cross joints.
- For best cutting results, use a GUTEX saw or GUTEX blades for jigsaws or handheld circular saws and a vacuum fitting.
- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.
- Substrate must be dry, even and technically sound.
- Protect this product against moisture.
- Edge stripping must be as high as the total built-up height of the floor.

Maximum Built-up Height

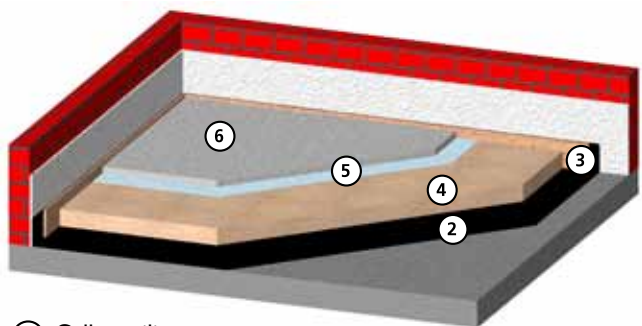
Floor Covering over GUTEX Thermosafe-wd	Maximum Built-up Height GUTEX Thermosafe-wd
Wet screed	140 mm
Mastic asphalt	140 mm
Sub-floor fibreboard \geq 25 mm	140 mm
OSB sub-floor board \geq 22 mm	140 mm
GUTEX Thermosafe-nf	100 mm
Gypsum screed elements \geq 25 mm	100 mm
Prefinished engineered wood flooring \geq 14 mm	30 mm
Laminate flooring \geq 8 mm	20 mm

Layout Pattern



GUTEX Thermosafe-wd installs in offset joint arrangement. Use the oddment of the last board of a row to start the next row (refer to layout plan).

Floor Construction



- ① Cellar ceiling
- ② Moisture barrier is required
- ③ Edge strips
- ④ GUTEX Thermosafe-wd
- ⑤ Moisture barrier
- ⑥ Wet screed

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NATURALLY MADE FROM WOOD