

GUTEX® Thermowall/-gf Data Sheet



Fotos: GUTEX Archiv, HUF-Haus

GUTEX Thermowall a single ply plaster baseboard with homogenous cross section, is the ideal choice for environmentally friendly use with GUTEX's composite thermal insulation systems.

Technical data	Thermowall				Thermowall-gf	
	stumpf			Tongue & groove	Tongue & groove	Butted
Joint						
Length (mm)	1250	830	2600/2800	1300	1300	2600/2800
Width (mm)	590	600	1250	600	600	1250
Thickness (mm)	20/40/60/80	100/120/140/160	80/100/120	80/100/120	40/60	40/60
Actual coverage (LxW) (mm)				1276x576	1276x576	
Square metres per board (m ²)	0,738	0,498	3,25/3,5	0,78	0,78	3,25/3,5
Weight per board (kg)	2,4/4,7/7,1/9,5	8,0/9,6/11,2/12,8	41,6/44,8/52/56 62,4/67,2	9,9/12,5/15,0	5,9/8,9	24,7/16,6/ 37,1/40,0
Weight per m ² (kg)	3,2/6,4/9,6/12,8	16/19,2/22,4/25,6	12,8/16/19,2	12,8/16/19,2	7,6/11,4	7,6/11,4
Boards per pallet	220/108/72/54	40/32/28/24	13/10	54/44/36	108/72	25/17
Square metres per pallet (m ²)	162,25/79,65/ 53,1/39,83	19,92/15,94/ 13,94/ 11,95	42,25/45,5/ 32,5 /35/ 26/28	42,12/34,32/ 28,08	84,24/56,16	81,5/87,5 52/56
Weight per pallet (kg)	540	320	560/600/600	590/540/550	680	640/680
Bulk density (kg/m ³)	160	160	160	160	190	190
Thermal conductivity λ_D (W/mK)	0,039	0,039	0,039	0,039	0,043	0,043
Thermal resistance R _D (W/mK)	0,55/1,05/ 1,55/2,05	2,6/3,1/ 3,6/4,1	2,05/2,6/3,1	2,05/2,6/3,1	0,95/1,4	0,95/1,4
Vapour diffusion factor (μ)	3	3	3	3	3	3
sd-value (m)	0,06/0,12/ 0,18/0,24	0,3/0,36/ 0,42/0,48	0,24/0,30/0,36	0,24/0,30/0,36	0,12/0,18	0,12/0,18
Compression resistance/Comp. strength (kPa)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 200	≥ 200
Air flow resistivity (kPa s/m ³)	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Specific heat capacity (J/kgK)	2100	2100	2100	2100	2100	2100



Designation Thermowall: WF-EN13171-T4-WS1,0-CS(10/Y)100-TR10-MU3-AF100.
Designation Thermowall-gf: WF-EN13171-T4-WS1,0-CS(10/Y)100-TR30-MU3-AF100.

Material:

- Manufactured from untreated Black Forest spruce and fir
- Binding agent: 4% polyurethane resin
- Hydrophobizing agent: 1.5% paraffin

Applications

- Plaster baseboard for GUTEX Thermowall composite thermal insulation systems over non-vented wood and solid wood substrate constructions.
- GUTEX Thermowall/-gf installs on the insides of walls to provide insulation. It also serves as plaster baseboard.

Advantages:

- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in the winter
- Improved soundproofing
- Vapour permeable
- Manufactured in Germany (Black Forest)
- Manufactured from wood, a sustainable, recyclable natural resource
- Biologically safe (natureplus certified)

Application Examples:

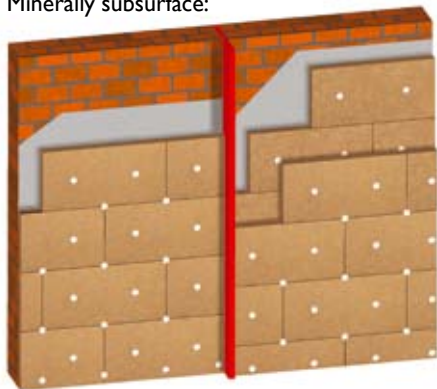
Installation Over Solid Wood or Masonry Substrates:

Board	Length x Width (cm)	Thickness (mm)	Joint	λ W/mK
GUTEX Thermowall	60 x 130	80 / 100/120	T&G	0,042
	125 x 260/280	80 / 100/120	Butted	0,042
	59 x 125	20 - 80	Butted	0,042
	60 x 83	100 - 160	Butted	0,042

Wooden subsurface:



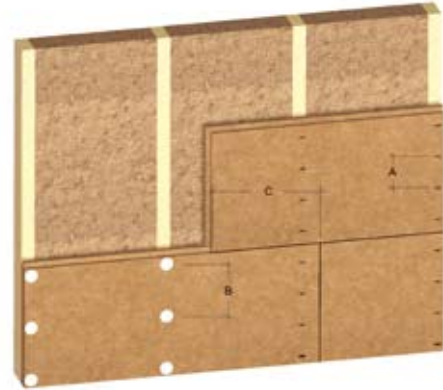
Minerally subsurface:



Wood frame constructions:

Type of board	Length x Width (cm)	Thickness (mm)	Type of edge	λ W/mK
GUTEX Thermowall-gf	60 x 130	40 / 60	T&G	0,046
	125 x 260/280	40 / 60	Butted	0,046
GUTEX Thermowall	60 x 130	80/100/120	T&G	0,042
	125 x 260/280	80/100/120	Butted	0,042

Wood frame construction:



Installation Instructions:

- Vacuum to remove all dust and dirt.
- For more detailed information about installation, including fastening and application of plaster, refer to the GUTEX brochure, "Composite Thermal Insulation Systems."

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NATURALLY MADE OF WOOD