

GUTEX® Thermowall/-gf Data Sheet



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GUTEX Thermowall/ -gf, a single-ply plaster baseboard with homogenous cross section, is the ideal choice for use with GUTEX's environment-friendly external thermal insulation composite system (ETICS).

Technical Data	Thermowall				Thermowall-gf	
	buted			tongue and groove	tongue and groove	buted
Joint type						
Thickness (mm)	20/40/60/80	100/120/140/160	80/100/120	80/100/120/140/160	40/60	40/60
Length (mm)	1250	830	2600/2800	1300	1300	2600/2800
Width (mm)	590	600	1250	600	600	1250
Actual coverage, length x width (mm)				1276 x 576	1276 x 576	
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)	2.4/4.7/7.1/9.4	8.0/9.6/11.2/12.7	41.6/44.8/52/56 62.4/67.2	10.0/12.5/15.0/17.5/ 20.0	5.9/8.9	24.7/37.1/ 26.6/39.9
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	10.0/12.5/15.0/17.5/20.0	7.6/11.4	7.6/11.4
Boards per pallet	220/108/72/54	40/32/28/24	13/10/8	54/44/36/32/28	108/72	25/16
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/ 24.96/21.84	84.24/56.16	80.28/52 87.5/56
Weight per pallet (kg)	540	320	560/600	540	720	680/640/730/680
Bulk density (kg/m ³)	160	160	160	160	190	190
Nominal thermal conductivity λ_D (W/mK)	0.039	0.039	0.039	0.039	0.043	0.043
Nominal thermal resistance R_D (m ² K/W)	0.51/1.03/ 1.54/2.05	2.56/3.06/ 3.59/4.1	2.05/2.6/3.08	2.05/2.56/3.08/3.59/ 4.10	0.93/1.4	0.93/1.4
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/ 0.42/0.48	0.12/0.18	0.12/0.18
Compressive stress/ strength (kPa)	100	100	100	100	200	200
Tensile strength perpendicular to board surface (kPa)	10	10	10	10	30	30
Short-term water absorption (kg/m ²)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Air flow resistivity (kPa s/m ³)	100	100	100	100	200	200
Specific heat capacity (J/kgK)	2100	2100	2100	2100	2100	2100
Fire reaction Euro Class as per DIN EN 13501-1	E	E	E	E	E	E



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

Thermowall-gf designation: WF-EN13171-T4-WS1,0-CS(10/Y)100-TR30-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

Composition

- Manufactured from untreated Black Forest spruce and fir
- Additives:
 - 4.0 % polyurethane resin (binder)
 - 1.5% paraffin (hydrophobic agent)

Applications

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

Advantages

- Very effective acoustic insulation
- Impact resistant
- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in winter.
- Water vapour diffusion permeable
- Wood is a sustainable, recyclable natural resource
- Made in Germany
- Biologically safe (natureplus® certified)

Detail Drawings

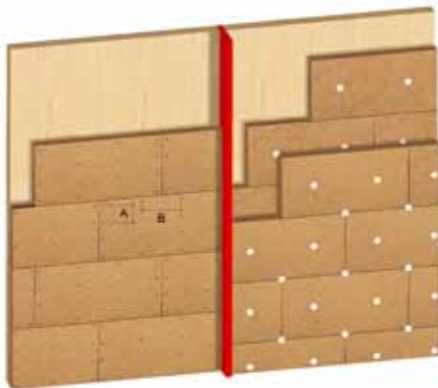
Over Timber or Masonry

Product	Length x Width (cm)	Thickness (mm)	Joint	λ W/mK
GUTEX Thermowall	60 x 130	80 / 100/120/ 140/160	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

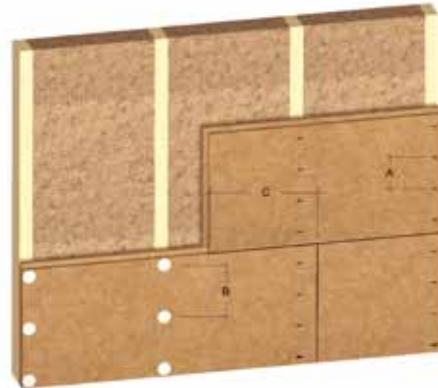
Timber Frame

Product	Length x Width (cm)	Thickness (mm)	Joint	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/ 140/160	T&G	0.042
	125 x 260/280	80/100/120/	butted	0.042

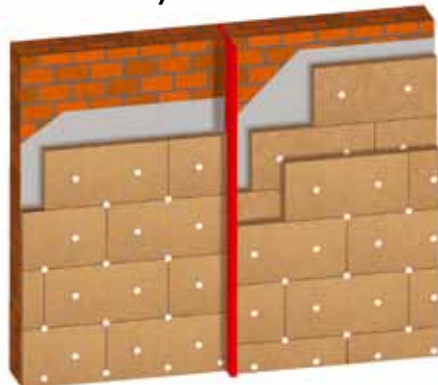
Over Timber Wall



In Timber Frame



Over Masonry



Installation

- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.
- For more detailed information and instructions about installation, fastening and render, see GUTEX's brochure „External Thermal Insulation Composite System.“

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NATURALLY MADE FROM WOOD