

Technical data sheet

Gutex Thermowall

Gutex Thermowall is a plasterable insulation board with a low lambda value for the ecological Thermowall ETICS.

Ingredients

- Untreated fir and spruce wood
- 4,0 % PUR resin (polyurethane resin)
- 1,50 % Paraffine

Waste disposal

- Waste code numbers according to AVV: 030105, 170201



Technical data

Bulk density ρ [kg/m³]	~ 160
Nominal thermal conductivity λ_D [W/mK]	0,040
Vapour diffusion μ	4
Compressive stress/strength [kPa]	≥ 100
Tensile strength perpendicular to the panel plane [kPa]	≥ 10
Short-term water absorption [kg/m²]	≤ 1
Air flow resistivity [kPa s/m²]	≥ 60
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
Approval number	ETA-10/0287, ETA-10/0288
Board designation	WF-EN13171-T5-WS1,0-DS(70,-)3-CS(10/Y)100-TR10-MU4-AFr60



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Product details

Joint type	tongue + groove				
Thickness [mm]	80	100	120	140	160
Length × width [mm × mm]	1300 × 600				
Cover dimensions: length × width [mm × mm]	1280 × 580				
Coverage: square metres per panel [m²]	0,74				
m² per unit	0,78				
Weight per board [kg]	9,47	11,84	14,21	16,58	18,94
Weight per m² [kg]	12,80	16,00	19,20	22,40	25,60
Items per pallet	56	46	38	32	28
Square metres per pallet [m²]	43,68	35,88	29,64	24,96	21,84
Weight per pallet [kg]	580	590		580	
Nominal thermal resistance R_D [m²K/W]	2,00	2,50	3,00	3,50	4,00
sd value [m]	0,32	0,40	0,48	0,56	0,64

Product details

Joint type	flush-mount				
Thickness [mm]	20	40	60	80	
Length × width [mm × mm]	1300 × 600				2600 × 1250
Cover dimensions: length × width [mm × mm]	1300 × 600				2600 × 1250
Coverage: square metres per panel [m²]	0,78				3,25
m² per unit	0,78				3,25
Weight per board [kg]	2,5	4,99	7,49	9,98	41,6
Weight per m² [kg]	3,20	6,40	9,60	12,80	
Items per pallet	228	112	76	56	12
Square metres per pallet [m²]	177,84	87,36	59,28	43,68	39,00
Weight per pallet [kg]	590	570	590	580	520
Nominal thermal resistance R_D [m²K/W]	0,50	1,00	1,50	2,00	
sd value [m]	0,08	0,16	0,24	0,32	

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Product details

Joint type	flush-mount				
Thickness [mm]	80	100		120	
Length × width [mm × mm]	2800 × 1250	2600 × 1250	2800 × 1250	2600 × 1250	2800 × 1250
Cover dimensions: length × width [mm × mm]	2800 × 1250	2600 × 1250	2800 × 1250	2600 × 1250	2800 × 1250
Coverage: square metres per panel [m ²]	3,5	3,25	3,5	3,25	3,5
m ² per unit	3,5	3,25	3,5	3,25	3,5
Weight per board [kg]	44,8	52	56	62,4	67,2
Weight per m ² [kg]	12,80	16,00		19,20	
Items per pallet	12	9		8	
Square metres per pallet [m ²]	42,00	29,25	31,50	26,00	28,00
Weight per pallet [kg]	550	520			550
Nominal thermal resistance R _D [m ² K/W]	2,00	2,50		3,00	
sd value [m]	0,32	0,40		0,48	

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Areas of application

- Insulation board for Thermowall ETICS for timber and solid construction without rear ventilation

Advantages

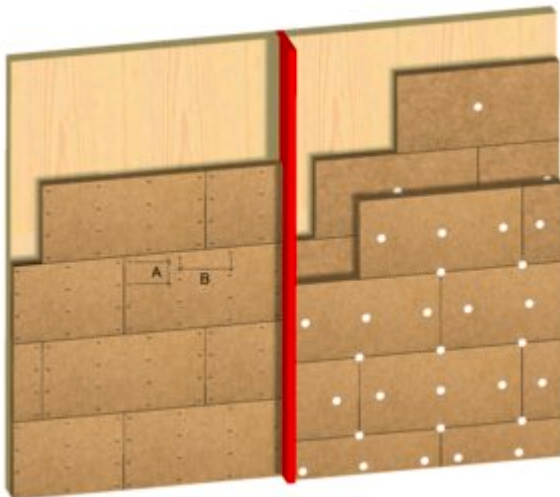
- High sound insulation
- Shockproof
- Excellent heat storage capacity → protection against summer heat and winter cold
- Vapour permeable
- Wood is a sustainable raw material → recyclable
- Made in Germany (Black Forest)
- Biologically safe (natureplus® certified)

Processing instructions

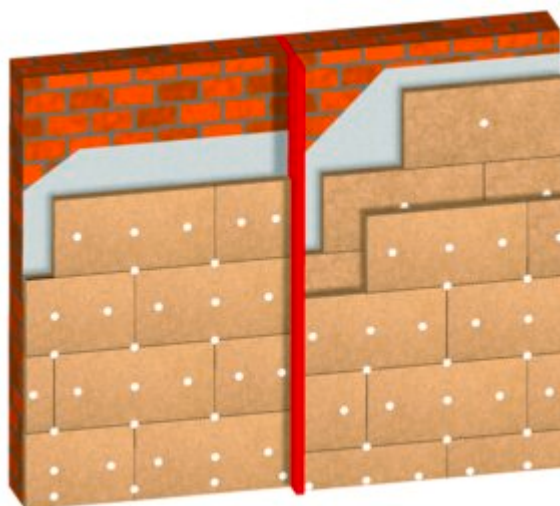
- For detailed and comprehensive installation instructions regarding panel installation, fasteners, and plaster application, see the brochure "Thermowall WDVS: The Ecological External Insulation Composite System."
- Legal requirements regarding the handling of wood dust must be observed.

Detailed designs

Installation on solid wood or mineral substrates



Solid wood substrate

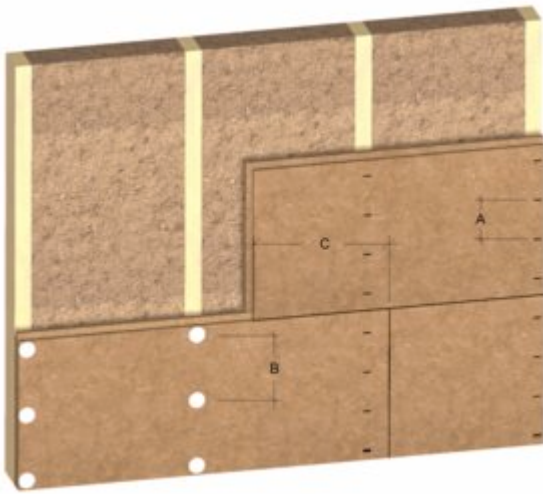


Solid construction

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Assembly in timber-frame construction



Timber-frame construction