






GUTEX® Multiplex-top Data Sheet



Fotos: GUTEX Archiv

GUTEX Multiplex-top is a rain-tight sub plate with a homogenous single-layer raw density profile and paraffin impregnation. It is also suitable for interior applications.

Technical data	Multiplex-top
Joint	Tongue and groove
Thickness (mm)	18/22/28/35
Length x width (mm)	2500 x 750
Bulk density (kg/m ³)	200
Actual coverage, length x width (mm)	2476 x 726 (18 mm) 2480 x 730 (22/28 mm) 2480 x 722 (35mm)
Square metres per board (m ²)	1.87
Weight per board (kg)	6.75/8.25/10.5/13.1
Weight per m ² (kg)	3.6/4.4/5.6/7.0
Boards per pallet	55/45/35/28
Square metres per pallet (m ²)	103.12/84.37/65.62/52.5
Weight per pallet (kg)	400
Thermal conductivity λ_D (W/mK)	0.044
Thermal resistance R_D (m ² K/W)	0.40/0.50/0.65/0.80
Vapour diffusion factor (μ)	3
sd-value (m)	0.05/0.07/0.08/0.11
Compressive stress/Compression strength (kPa)	≥ 200
Tensile strength perpendicular to the surface (KPa)	≥ 40
Air flow resistivity (kPa s/m ³)	≥ 100
Short-term water absorption (kg/m ²)	≤ 1.0
Specific heat capacity (J/kgK)	2100
Fire reaction rating as per EN 13501-1 (European Classification)	E
    	

Designation: WF-EN 13171-T4-WS1,0-CS(10/Y)100-TR40-MU3-AF100
 *Approval No. 23.15-1404.

Materials:

- Manufactured from untreated Black Forest spruce and fir
- Additives:
 - 4% polyurethane resin
 - 1,5% paraffin

Applications:

- As rain-tight sub plate
- For sheathing of framed constructions
- Installs over GUTEX Thermosafe-homogen boards in roof and wall insulation applications
- GUTEX Multiplex-top boards of up to 18 mm thickness are suitable for installation directly over the rafters
- Suitable for use as baseboard (only GUTEX Multiplex-top 18 mm) for wallpaper and plaster

Advantages:

- Wind and rain tight
- On greater than 15° pitches, Requires no extra decking or adhesive taping of the butt joints when used for pitches greater than 15°. (22, 28 and 35 mm)
- Now, thanks to improved weather resistance, suitable for 12-week use instead of 4
- Additional thermal insulation
- Prevents thermal bridging
- Superior thermal storage capacity provides outstanding insulation against heat in the summer and cold in the winter
- Effective sound insulation
- Regulates humidity
- Allows vapor diffusion
- Guaranteed by the Central Association of German Roofers
- Manufactured in Germany (Black Forest)
- Wood is a sustainable, recyclable natural resource
- Biologically safe (natureplus certified)

Installation Instructions:

- Platten trocken lagern und verarbeiten
- Always install the sheets so the side with the marking is exposed on the exterior of the building
- Max rafter distance (centre-to-centre):

Thickness in mm	Max. distance in cm
22	85
28	90
35	100

- Sheets must be butted tightly
- Avoid walking on the area between the rafters
- Immediately install battens after laying insulation board.



- Install the boards in staggered configuration
- Do not install damaged boards
- As a rule, install the boards at a right angle to the rafters
- Stagger butted side joints with the next row's joint being at least centred on the next rafter.
- All seams and intersections must be properly sealed to prevent the ingress of rain, e.g. with adhesive tape and roofing cement (available from GUTEX)
- Always install the boards so that the tongue points upwards.
- GUTEX Ultratherm boards are not designed and made to provide structural support, strength or bear loads.



Instructions for Specific Roof Pitches

roof pitch	Thickness(mm)	
< 15°	18-35	Requires suitable moisture barrier
≥ 15°	22,28,35	Board joints do not have to be taped, provided the pitch is not less than 6° under the recommended pitch specification.
≥ 20°	18-35	Board joints do not have to be taped, provided the pitch is not less than 6° under the recommended pitch specification.

Fastening:

Nails

		GUTEX Multiplex-top 22 / 28 mm			
		Nails per running metre of batten			
		Nail 3.8 x 100 mm Batten cross section 30 x 50 mm			
		Snow load			
		0.75	1.0	1.5	2.5
Weight of the roofing (kN/m ²)	0.35	3/3	3/3	3/3	4/4
	0.60	3/3	3/3	3/4	4/5
	0.95	3/4	3/4	4/5	5/6

		GUTEX Multiplex-top 35 mm			
		Nails per running metre of batten			
		Nail 5.0 x 140 mm (Power nails 3.8 x 130 mm) Batten cross section 40 x 60 mm			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Gewicht der Bedachung (kN/m ²)	0.35	3(3)	3(3)	3(4)	3(6)
	0.60	3(4)	3(4)	3(5)	4(7)
	0.95	3(5)	3(6)	4(7)	5(8)

Cramps

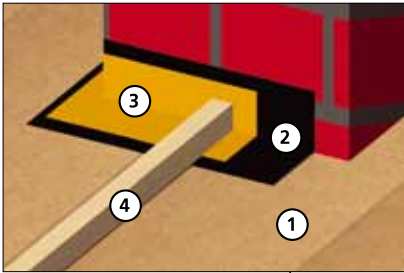
		GUTEX Multiplex-top 22 mm			
		Cramps per running metre of counter lathing			
		Cramp 2,0 x 90 mm (width) 12 mm Batten cross section 30 x 50 mm			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of the roofing (kN/m ²)	0.35	4	5	6	8
	0.60	5	6	7	9
	0.95	7	8	9	11

		GUTEX Multiplex-top 28 mm			
		Cramps per running metre of counter lathing			
		Cramp 2,0 x 90 mm (width) 12 mm Batten cross section 30 x 50 mm			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of the roofing (kN/m ²)	0.35	5	5	7	9
	0.60	7	7	9	11
	0.95	9	10	11	14

		GUTEX Multiplex-top 35 mm			
		Cramps per running metre of counter lathing			
		Rafter distance max = 85 / 100 cm Cramp 2,0 x 120 mm (width) 12 mm Batten cross section 30 x 50 mm			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of the roofing (kN/m ²)	0.35	6/7	7/8	8/10	12/14
	0.60	8/9	9/10	11/12	14/16
	0.95	11/13	12/14	14/16	17/20

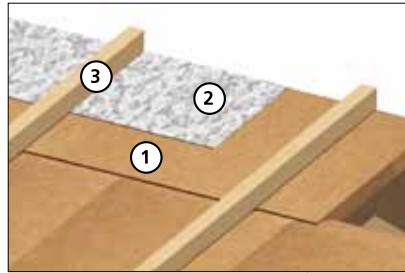
Detail Drawings

Roof intersections



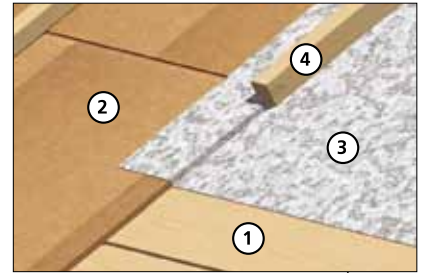
- ① GUTEX Multiplex-top
- ② Primer (GUTEX)
- ③ Adhesive tape (GUTEX)
- ④ Lathing

Ridges

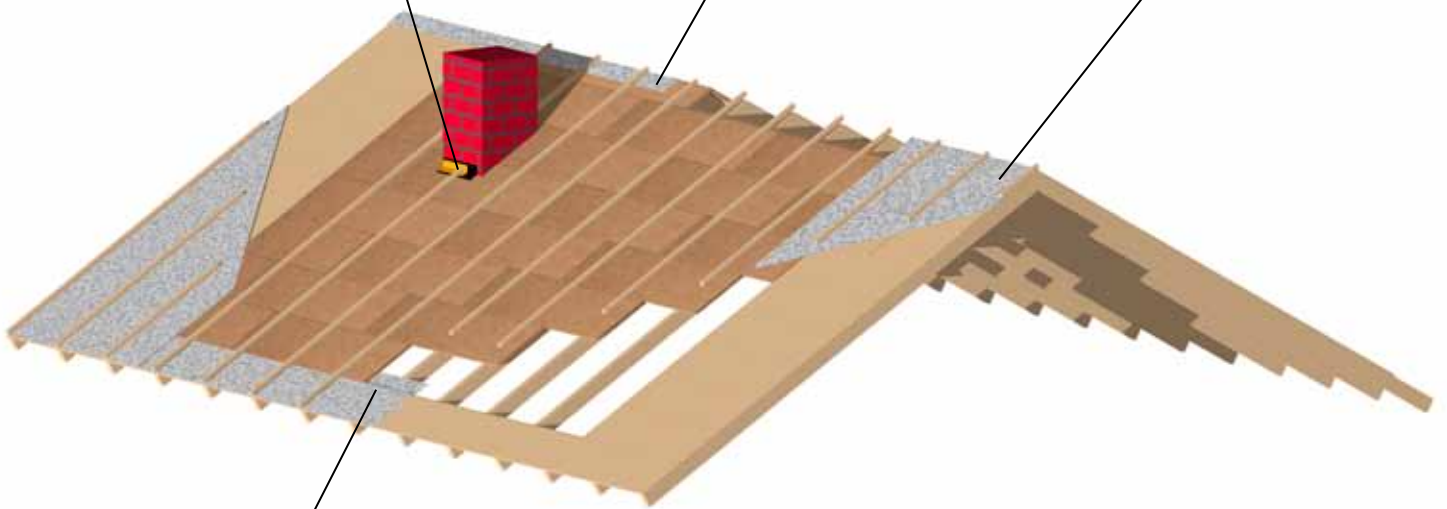


- ① GUTEX Multiplex-top
- ② Vapour permeable roofing felt
- ③ Lathing

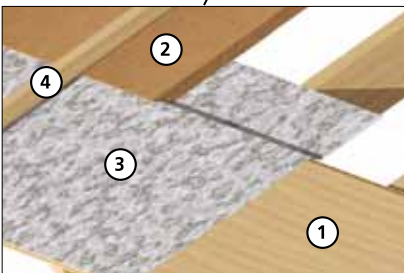
Gable Ends



- ① Sub roof sheathing
- ② GUTEX Multiplex-top
- ③ Vapour permeable roofing felt
- ④ Lathing

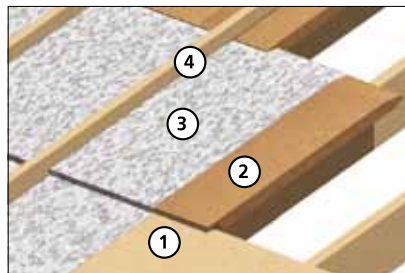


Eaves Variation 1



- ① Sub roof sheathing
- ② GUTEX Multiplex-top
- ③ Vapour permeable roofing felt
- ④ Lathing

Eaves Variation 2



- ① Sub roof sheathing
- ② GUTEX Multiplex-top
- ③ Vapour permeable roofing felt
- ④ Lathing

Valleys



- ① GUTEX Multiplex-top
- ② Primer (GUTEX)
- ③ Adhesive tape (GUTEX)

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NATURALLY MADE OF WOOD