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GUTEX Multiplex-top is a rain-tight sarking board with single-ply construction, homogenous cross-section and paraffin impregnation.

Technical Data	Multiplex-top
Joint type	tongue and groove
Thickness (mm)	18/22/28/35
Length x width (mm)	2500 x 750
Actual coverage, length x width (mm)	2476 x 726 (18 mm) 2480 x 728 (22/28 mm) 2480 x 722 (35 mm)
Square metres per board (m ²)	1.875
Weight per board (kg)	6.75/8.25/10.5/13.125
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)	103.13/84.38/65.63/ 52.5
Weight per pallet (kg)	430
Bulk density (kg/m ³)	200
Vapour diffusion factor (μ)	3
sd-value (m)	0.054/0.066/0.084/ 0.105
Compressive stress/ strength (kPa)	200
Tensile strength perpendicular to board surface (kPa)	30
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 Euro Class as per DIN EN 13501-1	E

European Union	
Nominal thermal conductivity λ_D (W/mK)	0.044
Nominal thermal resistance R_D (m ² K/W)	0.40/0.50/0.60/0.75



Dry manufacturing technique with designation:

WF-EN 13171-T5-WS 1,0-CS(10/Y)100-TR30-MU3-AF100

German disposal category: A2 (treated wood; without non-halogenated organic compounds)

Code number as per AVV:030105; 170201

Applications

- Rain-tight sarking
- In above-rafter constructions as sarking over GUTEX Thermosafe-homogen
- All GUTEX Multiplex-top boards, except those that are 18 mm thick, are suitable for installation directly over rafters.
- 18 mm GUTEX Multiplex-top boards are only suitable for use with above-rafter insulation.

Advantages

- Consistently uniform board dimensions make installation quicker and easier
- Homogeneous, single-ply construction
- Wind tight
- Extra covering or taping of the joints is unnecessary if used with 22, 28 and 35 mm thick boards for pitches greater than 15°. Additional covering and taping of joints is unnecessary for 18 mm boards if the roof pitch exceeds 20°.
- Suitable as temporary roof covering (max. 3 months)
- Adhesive nail tapes or sealants are not required
- Ideal for upgrading the thermal insulation of existing structures
- Reduces thermal bridging
- Superior thermal storage capacity provides outstanding insulation against heat in the summer.
- Significantly improves soundproofing
- Regulates humidity
- Allows vapour diffusion
- Guaranteed by Germany's Association of Roofers
- Wood is a sustainable, recyclable natural resource.
- Made in Germany
- Biologically safe (natureplus® certified)

Composition

Manufactured from untreated Black Forest spruce and fir

- Additives:
 - 4 % polyurethane resin
 - 1.5 % paraffin

Installation

- Store and install this product dry.
- Always install the boards so the side with the marking is exposed on the exterior of the building.
- Max. rafter distance (centre-to-centre):

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

- Board joints must be butted tightly.
- Avoid walking on areas between the rafters.
- Immediately install battens after installing boards.
- Adhesive nail tapes or sealants are not required.
- Avoid cross joints.



- Do not use damaged boards.
- As a rule, the boards install perpendicular to rafters.
- Stagger butted side joints with the next row's joint being centred no closer than the next rafter.
- All seams and roof joints must be properly sealed via joint tape with prior priming to prevent the ingress of rain, e.g. (available from GUTEX).
- Always install the boards so that their tongues point upwards.
- GUTEX Multiplex-top boards are not designed and made to provide structural support, strength or bear loads.
- Vacuum off the dust in accordance with applicable workplace safety regulations or practices.



Instructions for Specific Roof Pitches

Roof Pitch	Thickness (mm)	
< 15° < 20°	22, 28, 35 18	Suitable moisture barrier or taping (with GUTEX joint tape) of joints required
≥ 15° ≥ 20°	22, 28, 35 18	Not necessary to tape joints provided the pitch is not less than 8° under the recommended pitch specification.

Fixation

Use galvanized or better fasteners

Nails

		GUTEX Multiplex-top 22 / 28 mm			
		Nails per linear metre of batten			
		3.8 x 100 mm nails 30 x 50 mm batten cross section			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of 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 linear metre of batten			
		5.0 x 140 mm nails (Power nails 3.8 x 130 mm) 40 x 60 mm batten cross section			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of roofing (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

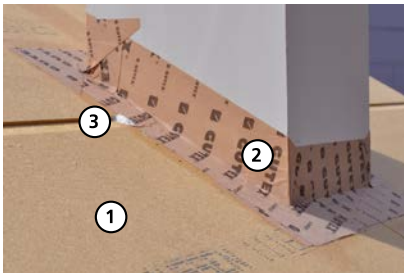
		GUTEX Multiplex-top 22 mm			
		Cramps per linear metre of cross batten			
		2.0 x 90 mm cramps (12 mm width) 30 x 50 mm batten cross section			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of roofing (kN/m ²)	0.35	4	5	6	8
	0.60	5	6	7	9
	0.95	7	8	9	11

		GUTEX Multiplex-top 28 mm			
		Cramps per linear metre of cross batten			
		2.0 x 110 mm cramps (12 mm width) 30 x 50 mm batten cross section			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of 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 linear metre of cross batten			
		2.0 x 120 mm cramps (12 mm width) 30 x 50 mm batten cross section			
		Snow load (kN/m ²)			
		0.75	1.0	1.5	2.5
Weight of roofing (kN/m ²)	0.35	7	8	10	14
	0.60	9	10	12	16
	0.95	13	14	16	20

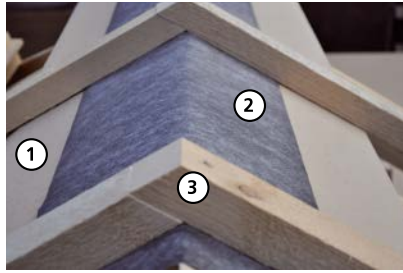
Detail Drawings

Roof Interruptions



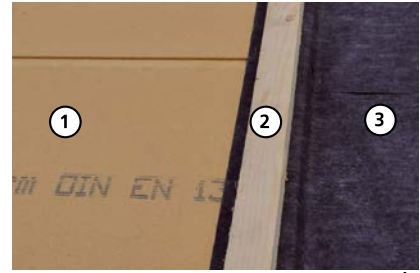
- ① GUTEX Multiplex-top
- ② GUTEX Joint Sealing Kit
- ③ GUTEX Sealing Caulking

Ridges

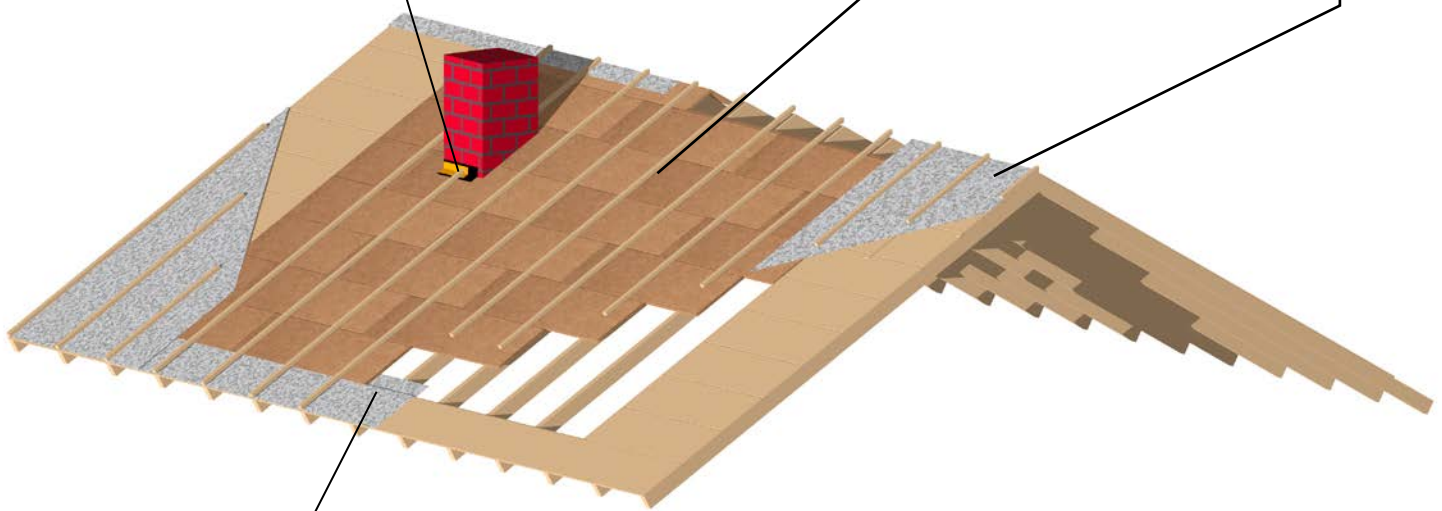


- ① GUTEX Multiplex-top
- ② Vapour permeable roofing felt
- ③ Cross battens

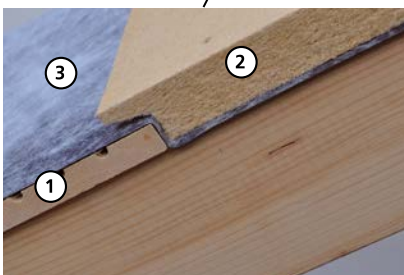
Gable Ends



- ① GUTEX Multiplex-top
- ② Cross battens
- ③ Vapour permeable roofing felt



Eaves Variation 1



- ① Sheathing of exterior overhang
- ② GUTEX Multiplex-top
- ③ Vapour permeable roofing felt

Eaves Variation 2



- ① GUTEX Multiplex-top
- ② Vapour permeable roofing felt
- ③ Cross battens

Valleys



- ① GUTEX Multiplex-top
- ② GUTEX Joint Sealing Kit
- ③ GUTEX Caulking

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Ecological Building Systems

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