☑ GUTEX° Ultratherm Data Sheet



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Technical Information	Ultratherm		
Joint type	Tongue and groove		
Thickness (mm)	50/60/80/100/120/140/160		
Length x width (mm)	1780 × 600		
Actual coverage (mm)	1760 x 568 (1.0 m ²)		
Square metres per board (m²)	1.07		
Weight per board (kg)	9.6/11.5/15.4/19.2/23.1/26.9/ 30.8		
Weight per m ² (kg)	9.0/10.8/14.4/18/21.6/25.2/ 28.8		
Boards per pallet	40/34/26/20/18/14/12		
Square metres per pallet (m²)	42.72/36.31/27.77/21.36/ 19.22/14.95/12.82		
Weight per pallet (kg)	400		
Bulk density (kg/m³)	180		
Nominal thermal conductivity $\lambda_D(W/mK)$	0.042		
Nominal thermal resistance R _D (m ² K/W)	1.19/1.43/1.90/2.38/2.86/3.33/ 3.81		
Vapour diffusion factor (μ)	3		
sd-value (m)	0.15/0.18/0.24/0.30/0.36/ 0.42/0.48		
Compressive stress/ strength (kPa)	150		
Tensile strength perpendicular to board surface (kPa)	30		
Short-term water absorption (kg/m²)	≤ 1.0		
Air flow resistivity (kPa ·s/m³)	100		
Specific heat capacity (J/kgK)	2100		
Fire reaction Euro Class as per DIN EN 13501-1	Е		











Designation:WF-EN 13171-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

GUTEX Ultratherm, a strong rain-tight insulating sarking board, has a single-ply construction and a homogenous cross section. It is suitable for new roofs and roof refurbishment.

Composition

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

Applications

- Upgrading of insulation in new and old buildings
- Rain-tight sarking
- Sheathing of timber frame structures (vented facades)

Advantages

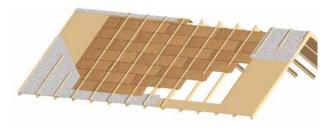
- Consistently uniform board dimensions make installation quicker and easier
- Homogeneous, single-ply construction
- Makes structures wind-tight
- No additional covering or taping of joints is necessary for roofs with pitches exceeding 15°.
- Suitable as temporary roof covering (max. 3 months)
- Adhesive 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 acoustic insulation
- 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)

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 (on-centre):

Thickness in mm	Max. On-centre Distance in cm		
50/60	110		
80/100/120/140/160	125		

- 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/offset 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 ingression of rain, e.g. (available from GUTEX).
- Always install the boards so that their tongues point upwards.
- GUTEX Ultratherm 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

< 15°	Requires suitable moisture barrier
≥ 15°	Not necessary to tape joints provided the pitch is not less than 8° under the recommended pitch specification.

Fastening

N. "						
Nails		GUTEX Ultratherm 50 mm				
		Nails per linear metre of batten				
		6 x 180 mm nails / 4.6 x 160 mm power nails				
	40 x 60 mm batten cross section					
Snow load (kN/m2)		0.75	1.0	1.50	2.5	
Weight of roofing (kN/m²)	0.35	3 / 3	3 / 3	3 / 4	3 / 5	
	0.60	3 / 4	3 / 4	3 / 5	4/6	
	0.95	3 / 5	3 / 5	4/6	5 / 8	

		GUTEX Ultratherm 60 mm			
		Nails per linear metre of batten			
		6 x 180 mm nails / 4.6 x 160 mm power nails			
		40 x 60 mm batten cross section			
Snow load (kN/m2)		0.75	1.0	1.50	2.5
Weight of roofing (kN/m²)	0.35	3 / 4	3 / 4	3 / 5	4/7
	0.60	3 / 5	3 / 5	4/6	5 / 8
	0.95	3 / 7	3 / 7	5 / 8	6/10
Weight of 0.35 roofing (kN/m²) 0.60		40 × 6 0.75 3 / 4 3 / 5	powe 0 mm batt 1.0 3 / 4 3 / 5	r nails en cross s 1.50 3 / 5 4 / 6	ection 2.5 4 / 7 5 / 8

Detail Drawings

Roof Interruptions Ridges **Gable Ends** (1) GUTEX Ultratherm 1) GUTEX Ultratherm (1) Sheathing of exterior overhang ② GUTEX Joint Sealing Kit ③ GUTEX Sealing compound Vapour permeable roofing felt (2) GUTEX Ultratherm (3) GUTEX Sealing compound Cross battens (4) Cross battens Vapour permeable roofing felt Eaves Variation I Eaves Variation 2 **Valleys** (2)

- (1) Sheathing of exterior overhang
- (2) GUTEX Ultratherm
- 3) Vapour permeable roofing felt
- (4) Cross battens

- (2) GUTEX Ultratherm
- (3) Vapour permeable roofing felt
- (4) Cross battens

(1) Rafter

- (1) GUTEX Ultratherm
- 2 GUTEX Joint Sealing Kit
- (3) GUTEX Sealing Compound

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