

Technical data sheet

Gutex Multiplex Top

Gutex Multiplex Top is the tested rainproof sub-roof panel up to 35 mm.

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



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Bulk density ρ [kg/m³]	~ 220
Nominal thermal conductivity λ_D [W/mK]	0,045
Vapour diffusion μ	3
Tensile strength perpendicular to the panel plane [kPa]	≥ 30
Short-term water absorption [kg/m²]	≤ 1
Air flow resistivity [kPa s/m²]	≥ 100
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
Board designation	WF-EN13171-T4-WS1,0-CS(10/Y)200-TR30-MU3-AFr100



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Product details

Joint type	tongue + groove	
Thickness [mm]	22	35
Length × width [mm × mm]	2500 × 750	
Cover dimensions: length × width [mm × mm]	2480 × 728	2480 × 722
Coverage: square metres per panel [m ²]	1,81	1,79
m ² per unit	1,88	
Weight per board [kg]	8,76	13,78
Weight per m ² [kg]	4,84	7,70
Items per pallet	45	30
Square metres per pallet [m ²]	84,38	56,25
Weight per pallet [kg]	520	485
Nominal thermal resistance R _D [m ² K/W]	0,45	0,75
sd value [m]	0,07	0,11

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Areas of application

- As rainproof underlay
- As a cover plate in combination with Gutex Thermosafe-homogen for roof insulation
- Direct installation on the rafters

Advantages

- Single-layer and homogeneous bulk density profile
- Windproof
- Rainproof from a roof pitch of 15° without additional covering or taping of the panel joints
- Can be exposed to the weather for 3 months as a temporary roof
- No nail sealing strips or nail seals required
- Minimisation of thermal bridges
- Improvement of sound insulation
- Moisture regulating
- Diffusion-open
- Guarantee deposit with the Central Association of German Roofers
- Wood is a sustainable raw material → recyclable
- Made in Germany (Black Forest)
- Biologically safe (natureplus® certified)

Processing instructions

- Store and install panels in a dry environment
 - Install panels with the labeled side facing out
 - Observe rafter spacing: For proper installation, the following maximum rafter spacing must be observed depending on the panel thickness:
 - For a panel thickness of 22 mm, the maximum rafter spacing is 85 cm
 - For a panel thickness of 35 mm, the maximum rafter spacing is 100 cm
 - Install panels flat, ensuring a snug fit and watertight joints
 - The spaces between rafters are not accessible
 - Secure immediately with counter-battens
 - No nail sealing tape or nail seals required
 - Cross joints are not permitted
 - Damaged panels must not be installed
 - As a general rule, the panels are installed perpendicular to the rafters
- Offset between rows by 1 rafter span, but at least 40 cm
- Joints and penetrations must be sealed with the Gutex adhesive system to ensure they are rainproof
 - Install with the tongue facing upward
 - The panel cannot be installed as a load-bearing element
 - Gutex Multiplex Top is not a load-bearing component (e.g., snow loads)
 - Increased moisture exposure on the interior side must be avoided.
 - Runoff rainwater can contaminate adjacent components, particularly during the construction phase, due to fiber abrasion or other contaminants. Ensure proper water drainage.
 - Gutex wood fiber insulation boards can be exposed to temperatures of up to 110°C even for extended periods. If higher temperatures are expected, such as with solar panels, additional measures must be taken
 - The required minimum clearances between combustible building materials and chimneys, etc., are specified in the applicable fire safety regulations and must be observed
 - Legal requirements regarding the handling of wood dust must be observed
 - Depending on the roof pitch, observe the following excerpt from the ZVDH regulations:
 - For a roof pitch of less than 15°, covering with a suitable membrane is mandatory.

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- For a roof pitch of 15° or more, bonding of the panel joints is not necessary, provided that the standard roof pitch is not exceeded by more than 8° and/or there are no increased requirements according to the ZVDH regulations.

If there are deviations from the specifications listed above, the "Technical Rules for Roofing with Roof Tiles and Roof Stones" from the ZVDH regulations must be followed

- If the roof pitch (RDN*) of the roof covering with roof tiles and roof stones falls below 8°, measures to reinforce the support battens are required, e.g., support battens made of moisture-resistant materials, water-repellent coverings for the support battens, or similar.
- Increased requirements arise from
 - long rafter lengths >10 m
 - concentrated water flow on specific areas of the roof, e.g., below downspouts or where valleys converge, etc.
 - special roof surfaces such as curved dormers, barrel, and conical roofs
 - snow-prone areas (snow load $\geq 1.5 \text{ kN/m}^2$)
 - windy areas, wind load zone 4, or ridge and peak locations, or areas prone to wind tunnels

* The standard roof pitch depends on the tile shape and laying method. It is specified by the tile manufacturer. ZVDH regulations as of 04/2024

Hot-air welding – Installation guidelines

- Do not apply a direct flame; use hot air only (hot-air gun)
- Set the hot-air gun temperature to < 350°
- Do not hold the hot-air gun in one spot for longer than 7–10 seconds
- If discoloration is detected on the surface of the wood fiber insulation board, the area must be inspected and, if necessary, removed

These installation guidelines protect Gutex boards (excluding Gutex Thermoflex and Gutex Thermofibre) from spontaneous combustion; the installation guidelines for the panels must also be followed.

Fastening

Fastening with staples or nails is possible for thicknesses up to 60 mm. For more information, please contact ITW Befestigungssysteme GmbH. Fasteners must be at least galvanized. Goodex Multiplex Top can also be fastened using approved screws. The forms titled "Design of Roof-mounted/Rafter-mounted Insulation" can be found at www.gutex.co.uk/knowledge-service/processing-wood-fibre-insulation/planning-design

Detailed designs

You can easily find all detailed instructions on our product page under the "Application" menu item.