GUTEX Multitherm, a hydrophobized and thus moisture-resistant insulation board, features single-ply construction and homogeneous cross-section, making it an ideal sarking board for exterior walls under facade facing or insulation on the undersides of rafters, as well as 60-mm or greater above-rafter insulation with sheathing or protective roofing felt, etc.

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

### Applications
- Sheathing directly over timber frame constructions, over wood sheathing and over masonry under the facing in vented facade constructions.
- Full boards install under rafters without interruption
- Suitable in 60-mm or greater thickness as additional above-rafter insulation, fastening to the rafters.

### Advantages
- Both sides suitable for exterior-faced exposure, which reduces waste
- Consistently uniform board dimensions make installation quicker and easier
- Homogeneous, single-ply construction
- Makes structures wind-tight
- Superior moisture resistance due to hydrophobic treatment
- Ideal for upgrading the thermal insulation of existing structures
- Reduces thermal bridging
- Exceptional specific heat capacity
  - → Maximum protection against the heat in summer
- Significantly improves soundproofing
- Regulates humidity
- Allows vapour diffusion
- Wood is a sustainable, recyclable natural resource
- Made in Germany
- Biologically safe (natureplus® certified)

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**Technical Data**

<table>
<thead>
<tr>
<th>Joint type</th>
<th>Multitherm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (mm)</td>
<td>40/60/80/100/120/140/160/180/200</td>
</tr>
<tr>
<td>Length x width (mm)</td>
<td>1760 x 600</td>
</tr>
<tr>
<td>Actual coverage, length x width (mm)</td>
<td>1740 x 580</td>
</tr>
<tr>
<td>Square metres per board (m²)</td>
<td>1.056</td>
</tr>
<tr>
<td>Weight per board (kg)</td>
<td>5.9/8.87/11.83/14.78/17.74/20.70/23.65/26.61/29.57</td>
</tr>
<tr>
<td>Weight per m² (kg)</td>
<td>5.60/8.40/11.20/14.00/16.80/19.60/22.40/25.20/28.00</td>
</tr>
<tr>
<td>Boards per pallet</td>
<td>54/36/26/22/16/14/12/10</td>
</tr>
<tr>
<td>Square metres per pallet (m²)</td>
<td>57.02/38.02/27.46/23.23/19.01/16.90/14.78/12.67/10.56</td>
</tr>
<tr>
<td>Weight per pallet (kg)</td>
<td>350</td>
</tr>
<tr>
<td>Bulk density (kg/m³)</td>
<td>140</td>
</tr>
<tr>
<td>Vapour diffusion factor (μ)</td>
<td>4</td>
</tr>
<tr>
<td>sd-value (m)</td>
<td>0.16/0.24/0.32/0.40/0.48/0.56/0.64/0.72/0.80</td>
</tr>
<tr>
<td>Compressive stress/ strength (kPa)</td>
<td>70</td>
</tr>
<tr>
<td>Tensile strength perpendicular to board surface (kPa)</td>
<td>7.5</td>
</tr>
<tr>
<td>Short-term water absorption (kg/m²)</td>
<td>≤ 2</td>
</tr>
<tr>
<td>Air flow resistivity (kPa·s/m³)</td>
<td>100</td>
</tr>
<tr>
<td>Specific heat capacity (J/kgK)</td>
<td>2100</td>
</tr>
<tr>
<td>Fire reaction Euro Class as per DIN EN 13501-1</td>
<td>E</td>
</tr>
</tbody>
</table>

**European Union**

| Nominal thermal conductivity \(\lambda_{D}(W/mK)\) | 0.040 |
| Nominal thermal resistance \(R_{D}(m²K/W)\) | 1.00/1.50/2.00/2.50/3.00/3.50/4.00/4.50/5.00 |

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Designation: WO-EN 13171-T4-W2.0-C5(000)/TR7.5-MU-Afr/100

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

Code number as per AVV: 030105; 170201
Installation - General
– Always store the boards in a dry place. Only install the boards if they are dry.
– Suggested board thickness for use with GUTEX Thermofibre blow-in insulation: ≥ 60 mm
– Install boards perpendicular to framed construction, making sure they fit tightly.
– Avoid cross joints.
– Do not use damaged boards. Seams and interruptions, such as dormer walls, chimneys, etc., must be tight against wind and driving rain.
– Cut to size with common woodworking machines.
– Boards are not designed and made to provide structural support, strength or bear loads.
– Avoid exposure to high levels of moisture on the interior sides of the boards.
– Vacuum off the dust in accordance with applicable workplace safety regulations or practices.

Installation - Walls
– Following on-centre distances apply:
  40 mm board thickness → max. on-centre is 62.5 cm
  60 - 200 mm board thickness → max. on-centre is 83.5 cm
– Fasten immediately with ventilation batten.
  Stagger/offset the joints from row to row by min. of 30 cm.
– May be left exposed to the weather for up to 4 months.

Installation - Roofs
– only GUTEX Multitherm ≥ 60 mm
– Maximum on-centre distances for rafters is 90 cm
– Stagger butted side joints with the next row’s joint being centred no closer than the next rafter.
– Avoid walking on areas between the rafters.
– Fasten the board immediately after placing in position and cover it for protection with roofing paper, sheathing or sarking (e.g. GUTEX Multiplex-top). Fasten counter batten through the protective covering and into the rafters. For your convenience in determining the most suitable fastener, you’ll find a fixation form at www.gutex.de.
– GUTEX Multitherm is not a load-bearing structural element (e.g. snow).