**best wood TOP 140**

TOP 140 is a pressure-resistant, weatherproof insulation board and a rain-proof sarking board, classified as ZVDH class 3 (ZVDH = Federation of German Roofing Contractors). Furthermore, TOP is also ideally suitable for weatherproof facade insulation on both-closed and ventilated curtain wall facades. Due to the use of paraffin (wax), the best wood board is completely water-repellent. The surface is equipped with an anti-slip latex coating. TOP 140 is weatherproof for up to 12 weeks' outdoor exposure. The application of nail sealing tapes is not necessary.

### Technical information

**Denomination**
- WF-EN13171-T5-Ds(70)-2-CS(10Y)-100-TR20-WS1.0-AF75-MU3

**Norm**
- EN13171

**Density**
- 140 [kg/m³]

**Nominal value of thermal conductivity λₐ₀**
- 0.040 [W/(mK)]

**Rated value of thermal conductivity λₐ**
- 0.042 [W/(mK)]

**Reaction to fire according to DIN EN 13501**
- E

**Construction material class according to DIN 4102**
- B2

**Full declaration**
- Wood fibers, PMDI gluing, paraffin, Latex

**Production process**
- Dry process

**Compressive stress at 10% compression**
- ≥ 100 [kPa]

**Tensile strength perpendicular to the plane of the board**
- ≥ 20 [kPa]

**Modulus of elasticity Eₚₖ**
- ≥ 1.45 [N/mm²]

**Water vapor diffusion resistance μ**
- 3

**Linear flow resistance**
- > 75 [kPa·s/m²]

**Short time water absorption**
- < 1.0 [kg/m³]

**Specific heat capacity**
- 2,100 [J/(kg K)]

**Waste code according to AVV**
- 030105, 170201

**WASTE CODES**
- DAD-ds, DAA-ds, DEO-ds, WAB-ds, WZ, WH

- **DAD**: Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage
- **ds**: High pressure resistance
- **DAA**: Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage
- **DEO**: Inside insulation of the ceiling (on the top) under screed without noise protection requirements
- **WAB**: External insulation of the wall behind the cladding
- **WH**: Infilling insulation of walls in wooden framework and timber frame constructions
- **WZ**: Insulation of cavity walls, cavity insulation

### Fields of application according to DIN 4108-10

- **DAD-ds**, **DAA-ds**, **DEO-ds**, **WAB-ds**, **WZ**, **WH**

### Delivery formats (standard formats)

<table>
<thead>
<tr>
<th>Edge formats</th>
<th>Tongue + groove</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>80, 100, 120, 140, 160, 180, 200, 220, 240 mm</td>
</tr>
<tr>
<td>Length</td>
<td>2,000 mm</td>
</tr>
<tr>
<td>Width</td>
<td>580 mm</td>
</tr>
<tr>
<td>Pallet height</td>
<td>up to a max. of 1,350 mm</td>
</tr>
</tbody>
</table>

Other board lengths are possible on request.
**Board weights**

<table>
<thead>
<tr>
<th>Thickness in mm</th>
<th>1 m²</th>
<th>580 x 2,000 mm 1.16 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>11.2 kg</td>
<td>13.0 kg</td>
</tr>
<tr>
<td>100</td>
<td>14.0 kg</td>
<td>16.2 kg</td>
</tr>
<tr>
<td>120</td>
<td>16.8 kg</td>
<td>19.5 kg</td>
</tr>
<tr>
<td>140</td>
<td>19.6 kg</td>
<td>22.7 kg</td>
</tr>
<tr>
<td>160</td>
<td>22.4 kg</td>
<td>26.0 kg</td>
</tr>
<tr>
<td>180</td>
<td>25.2 kg</td>
<td>29.2 kg</td>
</tr>
<tr>
<td>200</td>
<td>28.0 kg</td>
<td>32.4 kg</td>
</tr>
<tr>
<td>220</td>
<td>30.8 kg</td>
<td>35.7 kg</td>
</tr>
<tr>
<td>240</td>
<td>33.6 kg</td>
<td>38.9 kg</td>
</tr>
</tbody>
</table>

**Certificates**

- [CE mark]
- [natureplus logo]
- [PEFC logo]
- [Materialgarantie logo]
- [EPD logo]
- [DIN logo]
- [011-7D022]

**Installation advice**

Die TOP 140 TOP 140 is to be laid on pressure and joint free. Even the smallest joints have to be closed with best wood FDM TOP before installing the counter batten.

- Store and install TOP 140 dry
- The tongue faces roof ridge, cross joints are not allowed
- Do not use TOP 180 statically or as load-bearing component
- Do not install damaged boards!
- Boards can only be walked on via the rafters
- Each TOP board has to cover at least two rafters. The joint displacement per row has to be at least 1 rafter space.
- Afterwards it has to be fixed immediately with the counter-batten.
- The boards have to be installed rectangularly to the rafter
- Connections on the roof ridge, covings, hips and penetrations have to be sealed with the suitable system components
- Dust extraction in accordance with BG regulations
- Installation elements or inlets (e.g. solar pipes ...), for which temperatures of > 80°C can be expected, must not be installed without any additional fire precautions into the best wood SCHNEIDER wood fiber insulation materials.

Please note the special processing guidelines for ON-ROOF INSULATION.

When installing the TOP 140/160/180/220 directly onto the rafters, the following maximum rafter distances must be observed:

<table>
<thead>
<tr>
<th>Maximum rafter distance [mm]</th>
<th>Minimum board length [mm]</th>
<th>Thickness of board of the on-roof insulation [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 750</td>
<td>2,000</td>
<td>≥ 80 ≥ 60 ≥ 35 ≥ 22</td>
</tr>
<tr>
<td>≤ 850</td>
<td>2,000</td>
<td>≥ 100 ≥ 80 ≥ 50 ≥ 35</td>
</tr>
<tr>
<td>≤ 1,100</td>
<td>2,500</td>
<td>≥ 140* ≥ 120* ≥ 80 ≥ 50</td>
</tr>
<tr>
<td>≤ 1,250</td>
<td>2,500</td>
<td>≥ 200* ≥ 160* ≥ 100* X</td>
</tr>
</tbody>
</table>

**ATTENTION!**

All TOP boards are only treadable on the rafters. So boards can only be walked on via the rafters.
**Fastening instructions**

You have the possibility to calculate the screws required for fastening the on-roof insulation by yourself, using the free Heco software program. Alternatively, you can complete the fax information form and let Heco calculate the screws.

Furthermore, you can receive a calculation from ITW for ring nails, nail screws or clips by using the questionary fax. Please note that the calculation of ITW is only valid for ITW fixing elements. Remarks and boundary conditions in the result printout have to be considered.

The cross-section of the counter-batten is analyzed or stated depending on the fastening material when HECO and ITW do the calculation. Corresponding input forms can be found in the website www.schneider-holz.com.

**No need for nail sealing tapes**

As per rules and standards of the ZVDH, all TOP products are certified in the UDP-A class. In effectiveness of the examinations of the Holzforschung Austria it can be evidenced, that for connections of the counter-batten by means of of screws, cleats, self-piercing screws or threaded nails, due to natural swelling behaviour, an application of nail sealing tapes is not necessary.