Quick-assembly roof panel, type D

High quality thermal insulation system for safe and rapid roofing assembly roofing

- 3-point seal
- Large spans due to optimal profile design
- Quick and easy assembly
- Width of module 1000mm
- Insulation thicknesses (without beads) 30, 40, 60, 80, 100, 120, 140mm
- Roof pitch min. 5% (≈ 3°)
Quick-assembly roof panel, type D with steel cladding on both sides

Cladding layers
Coil galvanized and coated sheet steel with organic coating materials, further cladding layers are available on request

Surface finishes
Standard: External face: trapezoidal profile (333.3mm), internal face: profiled (56mm)
Optional: Internal face: smooth

Insulating core
Rigid polyurethane foam, impact resistant and attached to steel cladding across entire surface.
Density, approx. 40kg/m³. Free of CFC and HCFCs (ODP=0).

Fire tests
B1 according to DIN 4102, flame retardant
Class 5.3 according to VKF Bern
Euro class B-s2, d0
FM Approval

Approval
General building authority and building law approval for use in walls/roofs.
Notification of approval Z-10.4-549 of the DIBt, Berlin

Available lengths
Up to 24m, depending on panel thickness

Production tolerances
EPAQ; DIN EN 14509

Quality monitoring
EPAQ Krefeld, IMA Dresden, FIW München, MFPA Leipzig

Sound insulation
Approx. 26dB for all panel thicknesses

Statics
See our span tables

<table>
<thead>
<tr>
<th>Panel type</th>
<th>D072</th>
<th>D082</th>
<th>D102</th>
<th>D122</th>
<th>D142</th>
<th>D162</th>
<th>D182</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel thickness</td>
<td>mm</td>
<td>72</td>
<td>82</td>
<td>102</td>
<td>122</td>
<td>142</td>
<td>162</td>
</tr>
<tr>
<td>Cladding layer thickness</td>
<td>mm</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
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</tr>
<tr>
<td>External</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Internal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel weight approx.</td>
<td>kg/m²</td>
<td>11.5</td>
<td>11.9</td>
<td>12.7</td>
<td>13.5</td>
<td>14.3</td>
<td>15.1</td>
</tr>
<tr>
<td>U-value acc. to EN 14509 with joint</td>
<td>W/(m²·K)</td>
<td>0.717</td>
<td>0.542</td>
<td>0.363</td>
<td>0.273</td>
<td>0.219</td>
<td>0.183</td>
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</tbody>
</table>

1 A₁₅₅urope = 0.022 [W/mK]