This inexpensive basic element is especially suited for a cost-efficient insulation of flat roofs such as trapeze roofs, green roofs and patio roofs.

**puren MV insulating component, ThCG/WLS 028/030**

Insulating element made of high-performance PUR/PIR (polyurethane) rigid foam, CFC- und HCFC-free, acc. to DIN EN 13165, thermal conductivity grades 030 (d < 80 mm) and 028 (d ≥ 80 mm), B2 building class material, application type DAA dh (application type PUR 028/030 DAA ds upon request), with diffusion-open special fleece laminate on both sides.

**Advantages:**
- Slim mounting height because of high insulating performance
- Saving cost because of shorter fastening elements
- Can be laid in hot asphalt
- Safe processing of the sealing strips by way of casting and rolling in or welding

**Edges:**
- Blunt

**Formats:**
- 1200 x 600 mm (external dimensions)
- 1200 x 600 mm (fitting dimensions)

**Edges:**
- With stepped profile from 40 mm thickness

**Formats:**
- 1200 x 600 mm (external dimensions)
- 1185 x 585 mm (fitting dimensions)

A U-value of 0.27* can be achieved with a thickness of just 100 mm.

*Thermal transfer resistances Rₜ and Rₜₑ are taken into account. Other project-specific conditions, e.g. acc. to DIN EN ISO 6946, have not been considered.*

---

Both sides laminated with diffusion-open special fleece with perforated surface

High-performance PUR/PIR rigid foam, available in thicknesses from 20 to 160 mm

Available with stepped profile from 40 mm thickness
Technical Data:
puren® MV ThCG/WLS 028/030

<table>
<thead>
<tr>
<th>puren MV flat roof insulating component ThCG/WLS 028/030</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PUR/PIR rigid foam</strong></td>
</tr>
<tr>
<td>CFC- and HCFC-free, quality-protected</td>
</tr>
</tbody>
</table>

**Characteristics**
does not smoulder, melt or drop off while burning; harmless from a biological and building ecology point of view, non-rotting, recyclable, mould- and mildew-resistant

**Bulk density**
> 30 kg/m³ acc. to DIN EN 1602

**Compressive strength at 10 % compression deformation**
> 100 kPa acc. to DIN EN 826 (> 150 kPa acc. to DIN EN 826 upon request)

**Permanent compression strength permissible at 2 % compression deformation**
< 30 kPa

**Tensile strength vertical to the panel surface**
> 40 kPa acc. to DIN EN 1607

**Thermal conductivity grade**
\[ \lambda = 0.028 \text{ W/(m·K)} \text{ acc. to DIN 4108-4} \geq 80 \text{ mm} \]
\[ \lambda = 0.030 \text{ W/(m·K)} \text{ acc. to DIN 4108-4} \leq 80 \text{ mm} \]

**Coefficient of vapour diffusion resistance**
40 - 200 (PUR/PIR rigid foam)

**Application type**
DAA dh acc. to DIN 4108-10

**Fire classification**
B2 acc. to DIN 4102

**Temperature resistance**
-20°C up to + 90°C, short-term up to +250°C

**Linear expansion coefficient**
5-8x10⁻⁵ 1/K acc. to DIN EN 1604

**Water absorption**
approx. 3 % by volume acc. to DIN EN 12087

**Cover layers**
special fleece layer on both sides

**Edges**
blunt resp. available with stepped profile from 40 mm thickness - format 1200 x 600

<table>
<thead>
<tr>
<th>Thickness in mm</th>
<th>&quot;U&quot;-value [W/(m²·K)]</th>
<th>Package content in m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>1.20</td>
<td>18.00</td>
</tr>
<tr>
<td>30</td>
<td>0.86</td>
<td>11.52</td>
</tr>
<tr>
<td>40</td>
<td>0.67</td>
<td>8.64</td>
</tr>
<tr>
<td>50</td>
<td>0.54</td>
<td>5.72</td>
</tr>
<tr>
<td>60</td>
<td>0.46</td>
<td>4.32</td>
</tr>
<tr>
<td>80</td>
<td>0.33</td>
<td>3.60</td>
</tr>
<tr>
<td>100</td>
<td>0.27</td>
<td>2.88</td>
</tr>
<tr>
<td>120</td>
<td>0.22</td>
<td>2.16</td>
</tr>
<tr>
<td>140</td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td>160</td>
<td>0.17</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended accessories**

- puren attic wedges ThCG/WLS 030 - available as full or truncated wedge
- puren attic and domelight board ThCG/WLS 075 - available in various dimensions
- puren PUR roof adhesive - available in 2 kg and 6.5 kg cans
- puren WE tarpaulins/strips - available in thicknesses of 6, 8 and 10 mm as panels or rolls

* Thermal transfer resistances \( R_T \) and \( R_n \) are taken into account. Other project-specific conditions, e.g. acc. to DIN EN ISO 6946, have not been considered.

© puren gmbh 03/2007

PUR technology!

Technical status 3/07
Our brochures and informational material is meant to provide advice to the best of our knowledge, the contents, however, are not legally binding.
We reserve the right to make technical changes.
We refer to our general terms & conditions of sale and supply.