U-value calculation
by BRE U-value Calculator version 2.04a
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Element type: Wall - Other external wall type
Calculation Method: BS EN ISO 6946

### TPS EcoQuilt Container U-value

<table>
<thead>
<tr>
<th>Layer</th>
<th>d (mm)</th>
<th>λ layer</th>
<th>λ bridge</th>
<th>Fraction</th>
<th>R layer</th>
<th>R bridge</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>R-value¹</td>
<td></td>
<td></td>
<td>0.670</td>
<td>0</td>
<td>Cavity Before Product</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>R-value</td>
<td></td>
<td></td>
<td>1.370</td>
<td>0</td>
<td>EcoQuilt</td>
</tr>
<tr>
<td>3</td>
<td>25</td>
<td>R-value²</td>
<td>50.0</td>
<td>0.500</td>
<td>0.670</td>
<td>0.00050</td>
<td>Corrugation Cavity</td>
</tr>
<tr>
<td>4</td>
<td>1.5</td>
<td></td>
<td>50.0</td>
<td></td>
<td></td>
<td>0</td>
<td>Galvanized Steel</td>
</tr>
</tbody>
</table>

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67 mm (total wall thickness)  
0.040  
2.880  
Rse

¹Calculated with specified emissivity of 0.05  
²Calculated with specified emissivity of 0.05

Total resistance:  Upper limit: 2.501  Lower limit: 2.211  Ratio: 1.131  Average: 2.356 m²K/W

U-value (uncorrected)  0.424

U-value corrections
Air gaps in layer 2  ΔU = 0.000  (Level 0)  
Fixings in layer 2  ΔU = 0.041  (2.50 per m², 80.0 mm² cross-section, λ = 17.0)

Total ΔU  0.041  (9.7% of U)

U-value (corrected)  0.465

U-value (rounded)  0.47 W/m²K

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