HEAT-INSULATING SANDWICH ELEMENTS

Low weight, high strength and unlimited design flexibility for surfaces and façades, this is the recipe for success of the innovative sandwich systems of Weiss.

Your specialist dealer

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How to determine the U-value by calculation is regulated in DIN 4108 part 4

**Core material**
- **PUR/AL**: Polyurethane rigid foam with Vapour-diffusion tight aluminium film
- **PUR**: Polyurethane rigid foam of cut from block foam
- **XPS**: Polystyren rigid foam extruded
- **EPS**: Polystyren rigid foam expanded
- **MIN**: Mineral fibre insulating material
- **TK**: Thermoplastic plastic material

**Explanations**
- **U-value**: Overall coefficient of heat transfer U W / (m²xk)
- **WLG**: Thermal conductivity group λ W / (mxk)

**Technical information on U value**

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<th>U-value</th>
<th>WLG 025</th>
<th>WLG 030</th>
<th>WLG 035</th>
<th>WLG 040</th>
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**Examples for application**
- **Façades**
- **Window sills**
- **Doorpanels**
- **Refrigerated lorry**

For comparison:
Outer wall of masonry bricks, thickness 365 mm, U-value: 0.80 W/m²K

COSMO-ENERGY
Heat-insulating composite panels
Active protection of environment
At a time when energy resources are limited, increasing importance is attached to the topics of energy efficiency and thermal insulation in the building and industry sector. With our product line COSMO-ENERGY we are offering to you a variety of high-grade element variants with outstanding thermal insulation properties and in this way, we actively support you in saving energy.

**COSMO-ENERGY**

Energy-saving elements

Examples for surfaces:

- PVC
- Aluminium
- HPL/HD
- Plywood
- GRP

**Product examples**

**COSMO CLASSIC PVC/1.5-PUR/AL**
- Thermal conductivity group: 025
- Total thickness: 36.0 mm
- Lambda value: 0.025 W/mK
- U-value: 0.66

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 035
- Total thickness: 36.0 mm
- Lambda value: 0.033 W/mK
- U-value: 0.76

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 32.0 mm
- Lambda value: 0.029 W/mK
- U-value: 0.75

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 035
- Total thickness: 24.0 mm
- Lambda value: 0.033 W/mK
- U-value: 0.84

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 035
- Total thickness: 40.0 mm
- Lambda value: 0.033 W/mK
- U-value: 0.66

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 28.0 mm
- Lambda value: 0.029 W/mK
- U-value: 0.94

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 035
- Total thickness: 24.0 mm
- Lambda value: 0.033 W/mK
- U-value: 1.07

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 24.0 mm
- Lambda value: 0.029 W/mK
- U-value: 0.84

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 36.0 mm
- Lambda value: 0.029 W/mK
- U-value: 0.75

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 28.0 mm
- Lambda value: 0.029 W/mK
- U-value: 0.94

**COSMO CLASSIC PVC/1.5-XPS**
- Thermal conductivity group: 030
- Total thickness: 40.0 mm
- Lambda value: 0.033 W/mK
- U-value: 0.66

**COSMO CLASSIC HPL/HD/2.0-XPS**
- Thermal conductivity group: 015
- Total thickness: 40.0 mm
- Lambda value: 0.015 W/mK
- U-value: 0.99

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