



Data sheet Psi values for windows



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| | Product name | Spacer height in mm | Material | Thermal conductivity λ in W/mK | Thickness d in mm |
|--|---|---------------------------|-----------------|--|------------------------|
| Cross-section | | 6.5 | Stainless steel | 15 | 0.01 |
| | | | Plastic | 0.16 | 1.0 |
| Representative frame profiles | | Metal with thermal break | Plastic | Wood | Wood / Metal |
| | | | | | |
| Representative insulating glass units (IGUs) | Double sheet insulating glass $U_g = 1.1$ W/m ² K | 0.039 | 0.034 | 0.032 | 0.035 |
| | Triple sheet insulating glass $U_g = 0.7$ W/m ² K | 0.034 | 0.032 | 0.031 | 0.033 |
| Two Box model Characteristic values | | Space between panes in mm | | λ_{SZR} in W/mK | |
| | | | | Box 1 · $h_1 = 3$ mm | Box 2 · $h_2 = 6.5$ mm |
| | | 16 | | 0.40 | 0.18 |
| | | 12 | | 0.40 | 0.18 |

Calculations

The representative linear heat transfer coefficients (representative psi values) apply to typical frame profiles and glazing for the determination of the heat transfer coefficients U_w of windows. They have been determined using the boundary conditions (frame profile, glazing, glass mounting depth, back covering, primary and secondary sealant) defined in the IT guideline WA 08.1 "Thermally improved spacers - Part 1. Determination of the representative psi values for window frame profiles". This directive also governs the area of validity and application of the representative psi values. In order to avoid rounding errors, the psi values in the data sheet have been given to 0.001 W/mK. The method used for the arithmetic determination of the psi values has an accuracy of ± 0.003 W/mK. Differences of less than 0.005 W/mK are not significant.

Characteristic values determined by:



Týmto potvrdzujeme vlastnosti medzisklenného rámika Swisspacer- V podľa skúšky v skúšobni iftRosenheim.

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