

Data sheet Psi values for windows

based on determination of the equivalent thermal conductivity of spacers by measurement

SWISSPACER®

Vetrotech Saint-Gobain (International) AG Zweigniederlassung Kreuzlingen Sonnenwiesenstrasse 15 CH-8280 Kreuzlingen



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	Product name	Spacer height in mm	Material	Thickness d in mm
Cross-section	Advance swisspacer	6.5	Thermally improved Aluminium foil	1.0 0.020

		Metal with thermal break	Plastic	Wood	Wood / Metal
Representative frame profile					
Representative psi value double- sheet thermally insulating glass W/mK	Double-sheet insulating glass Ug=1.1 W/m²K	0.047	0.039	0.039	0.042
Representative psi value triplesheet thermally insulating glass W/mK	Triple-sheet insulating glass U _g =0.7 W/m²K	0.042	0.037	0.037	0.040

Two Box model Characteristic values		Space between panes in mm	$\lambda_{eq,2B}$ in W/mK	
	Space between panes	Space between panes in min	Box 1 · $h_1 = 3 \text{ mm}$	Box 2 · $h_2 = 6.5 \text{ mm}$
	$\begin{array}{c c} \hline \\ h_1 \\ \hline \\ h_1 \\ \hline \end{array}$ Can be used for all spacer widths		0.40	0.29

The equivalent thermal conductivity has been determined in accordance with the ift guideline WA-17/1 "Thermally improved spacers – Determination of the equivalent thermal conductivity by measurement". The representative linear heat transfer coefficients calculated in this way (representative psi values) apply to typical frame profiles and glazing for the determination of the heat transfer coefficient UW of windows. They have been determined under the boundary conditions (frame profiles, glazing, glass mounting depth, back covering, primary and secondary sealant) defined in the ift guideline WA-08/2 "Thermally improved spacers – Part 1: Determination of the representative Psi value for



Explanation