

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



	Product name	Spacer height in mm	Material	Thickness d in mm
Cross-section	Ultimate SWISSPACER	6.5	Plastic / Multilayer – polyester coated film "High Tech Gas Barrier Foil"	1.0 0.097

		Metal with thermal break	Plastic	Wood	Wood / Metal
Representative frame profile				⁻ 1, <u>-</u>	
Representative psi value doublesheet thermally insulating glass W/mK	Double-sheet insulating glass U _g =1.1 W/m²K	0.036	0.032	0.031	0.032
Representative psi value triplesheet themally insulating glass W/mK	Triple-sheet insulating glass U _g =0.7 W/m²K	0.031	0.030	0.029	0.030

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 · $h_2 = 6.5 \text{ mm}$
	Can be used for all spacer widths		0.40	0.14

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



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