Material

0.037

BF

Data sheet Psi values for windows

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

RAL GÜTEZEICHEN MEHRSCHEIBEN ISOLIERGLAS

Thickness d in mm

swisspacer |

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

Spacer height in mm

SWISSPACET SAINT-GORAIN	
SAINT-GOBAIN	

| Product name

Profile description	ADVANCE		6.5	Thermally improved	~ 0.02
Pr			Spacer category C	aluminium foil / SAN-GF	1.0
_	Representative glass constructions	Metal with thermal break	Plastic	Wood	Wood/Metal
Representative frame profiles					
Representative psi value doublesheet thermally insulating glass W/mK	Double-sheet insulating glass U _g =1.1 W/m²K	0.047	0.039	0.039	0.042
e triple- ng glass W/mK					

Two Box model Characteristic values	Space between panes	0	λ _{eq,2B} in W/mK	
	$ \begin{array}{c c} & 2 \\ \hline & 1 \end{array} $	Space between panes in mm	Box 1 · h ₁ = 3 mm	Box 2 · $h_2 = 6.5 \text{ mm}$
		Can be used for all spacer widths	0.40	0.29

0.037

The equivalent thermal conductivity has been determined in accordance with the ift guideline WA-17engl/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 U_W 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-08engl/3 "Thermally improved spacers – Part 1: Determination of the representative Psi value for window frame profiles". This guideline 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 at 0.001 W/mK. The method for the arithmetical determination of the psi values has an accuracy of \pm 0.003 W/mK. Differences of less than 0.005 W/mK are not significant. For further information, refer to the Bulletin 004/2008 "Guide to Warm Edge" of Bundesverband Flachglas.

0.042



0.040

Explanations

resentative psi valu t thermally insulatir

Triple-sheet insulating glass $U_g=0.7 \text{ W/m}^2\text{K}$