BF

Data sheet Psi values for windows

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





HELIMA GmbH Am Deckershäuschen 62 D - 42111 Wuppertal

	Product name		Spacer height in mm	Material	Thickness d in mm
Profile description	Nirotec 017		7.0	Stainless steel	0.17
			Spacer category A		
	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	0.065	0.049	0.052	0.056
Representative psi value triplesheet thermally insulating glass	Triple-sheet insulating glass U _g =0.7 W/m²K	0.061	0.048	0.052	0.057
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Two Box model Characteristic values		Space between panes in mm	λ _{eq,2B} in W/mK	
	Space between panes			
	$ \begin{array}{c c} \hline h_2 \\ \hline h_1 \\ \hline \end{array} $ 1	Special Social State III.	Box $1 \cdot h_1 = 3 \text{ mm}$	Box 2 · $h_2 = 7 \text{ mm}$
		Can be used for all spacer widths	0.40	0.64

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.



Explanation