## Data sheet Psi values for facade profiles

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

TECHNOFORM GLASSINSULATION



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	Product name	Spacer height in mm	Material	Thickness d in mm
Cross-section	TGI-Spacer M	6.85	Stainless steel Plastic	0.09 0.6/0.8
	Representative glass constructions	Wood/metal	Metal with thermal break $(d_{\rm i}=100~{\rm mm})$	Metal with thermal break $(d_i = 200 \text{ mm})$
Representative facade profiles				
Representative psi value double- sheet thermally insulating glass W/mK	6 16 6 Double-sheet insulating glass Ug=1.1 W/m <sup>2</sup> K	0.068	0.095	0.100
Representative psi value triple- sheet thermally insulating glass W/mK	6 12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 4 12 6   12 5 5 5   12 6 5 5   12 6 5 5   12 6 5 5   12 6 5 5   12 6 5 5   12 6 5 5   12 7 7 7	0.063	0.081	0.085
nodel alues	Snace between panes		λ <sub>eq,2B</sub> in W/mK	

model values	Space between panes		Casaa katuraa aasaa in mm	$\lambda_{eq,2B}$ in W/mK	
vo Box teristic			Space between panes in mm	Box $1 \cdot h_1 = 6 \text{ mm}$	Box 2 · $h_2 = 6.9 \text{ mm}$
Two Box I Characteristic	h <sub>2</sub>		Can be used for all spacer widths	0.40	0.31

The equivalent thermal conductivity has been determined in accordance with ift guideline WA-17engl/1 "Thermally improved spacers – Determination of the equivalent thermal conductivity by measurement". The representative linear heat transfer coefficients (representative psi values) determined thereby apply to typical facade profiles and glazing for determination of the coefficients of thermal conductivity  $U_{CW}$  of curtain walls. They have been determined under the framework conditions (frame profiles, glazing, glass mounting depth, back covering, primary and secondary sealant) defined in ift guideline WA-22engl/1 "Thermally improved spacers – Part 3: Determination of



the representative psi value for facade 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 specified to the nearest 0.001 W/mK. The calculation method for determining the psi values has an accuracy of  $\pm 0.003 \text{ W/mK}$ . Differences of less than 0.005 W/mK are not significant. Further information can be found in the bulletin 004/2008 "Guide to Warm Edge" published by Bundesverband Flachglas.