Psi values for windows

Determination of the equivalent thermal conductivity of spacers by measurement



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For	Spacer name	Technical Drawing	
Thermoseal Group Ltd Gavin Way Nexus Point Off Holford Drive Birmingham B6 7AF	Thermobar Spacer (For use with polysulfide/ polyurethane sealant)	700 SALOUS 27 FALOUS 27 FA	

Dimensions (mm)	Description	Thickness (mm)
6.5 high x 15.5 wide	Polypropylene 40% Glass filled spacer with a	1.2
	polyester film acrylic adhesive tape	0.027

Representative Psi value

Representative Psi value						
	Double-glazing - U _g =1.1 W/m²K	Triple-glazing - U _g =0.74 W/m²K				
Metal with thermal break	0.036 W/mK	0.031 W/mK				
Plastic	0.032 W/mK	0.031 W/mK				
Wood	0.030 W/mK	0.029 W/mK				
Wood and Metal	0.032 W/mK	0.030 W/mK				

Two box model characteristic values

Space between panes (mm)		λ _{eq,2B} in W/mK		
		Spacer - height1 = 6.5mm	Sealant - height2 = 3mm	
Valid for all spacer widths	Spacer	height1 V height2	0.14	0.40
	Sealant			
←Cavity width→				

This report follows the principles of IFT guideline WA-17/1 "Thermally improved spacers – Determination of the equivalent thermal conductivity by measurement" and IFT guideline WA-08/2 "Thermally improved spacers – Part 1: Determination of the representative Psi value for window frame profiles".

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