

# Psi values for windows

Determination of the equivalent thermal conductivity of spacers by measurement



November 2021 – Document Ref: CU21618-1

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)	

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

## Representative Psi value

	 Double-glazing - $U_g=1.1$ W/m <sup>2</sup> K	 Triple-glazing - $U_g=0.74$ W/m <sup>2</sup> K
 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)	$\lambda_{eq,2B}$ in W/mK	
	Spacer - height1 = 6.5mm	Sealant - height2 = 3mm
Valid for all spacer widths 	0.14	0.40

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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