

2 March, 2007

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Dear Stuart

Re. Thermal analysis performance research of Duralite spacer bar

Following instruction from yourself for Build Check Ltd to carry out thermal simulations and energy rating calculations on 1No. Profile 22 PVC-U window systems with Pilkington K low emissivity glass and Optiwhite low iron glass, with Air and Argon gas filling, please find the table of results below detailing all of the results achieved.

Configuration	Centre pane u- value	glass g-value	window g-value	window u-value	WER index	BFRC rating
K Air Aluminium	1.735	0.78	0.50	1.94	-24	D
K Air Superspacer	1.735	0.78	0.50	1.76	-11	C
K Air Duralite	1.735	0.78	0.50	1.74	-10	B
K Argon Aluminium	1.529	0.78	0.50	1.81	-15	C
K Argon Superspacer	1.529	0.78	0.50	1.62	-2	B
K Argon Duralite	1.529	0.78	0.50	1.59	0	A

These simulations have been based upon the standard window configuration defined in GGF Datasheet 2.2 of 1230mm wide x 1480mm high, side hung casement next to fixed light with central mullion and minimum reinforcement.

Each result is with a 4-20-4 double glazed IGU with Pilkington K Glass (15% uncorrected emissivity), and Pilkington Optiwhite Low-Iron glass. Simulations were carried out with 100% Air fill, and 90% Argon/10% Air fill. Spacer types were a generic Aluminium box spacer with 6mm Butyl secondary seal, Edgetech Super Spacer with 5mm Butyl secondary seal, and Truseal Duralite with no secondary seal.

If you have any questions about any of the results detailed in this letter then please do not hesitate to contact us.

Sincerely,



Michael Handley
Senior Test Engineer



Richard Bate
Technical Director