

News From Abroad - GGF Awards Super Spacer® Top Results at Glassex in the United Kingdom

Edgetech's Super Spacer has come out on top - outperforming all the competition in recent GGF Pii testing for both the simulation tests and the physical hot box testing.

In a recent government funded project, jointly commissioned by the GGF and the DTI, a range of typical UK window systems were measured to establish the improvement in thermal performance derived from different spacer bar systems in insulated glazing units.

The hotbox measurements were carried out at the National Physics Laboratory, while the simulations were done at the Centre for Window and Cladding Technology at Bath University. Tests were carried out on three and five chambered PVCu windows, soft wood windows, 5mm thermally broken aluminum and 23mm thermally broken aluminum windows. Windows were tested with hard-coat and with soft-coat Low-E glass, and with and without Argon gas filling.

"Super Spacer didn't just do a little better than the rest; it did a lot better - it was approximately 23% better than the next best. It was up against four other warm edge spacer bars and standard aluminum bar, with a typical overall window U-value savings with Super Spacer of approximately .03. To say that Super Spacer made the difference is an understatement," said Andy Jones, Edgetech's UK Sales and Marketing Manager.

What is the GGF?

The Glass and Glazing Federation (GGF) is the recognised leading authority and voice for employers and companies within the flat glass, glazing, window, home improvement, plastics and applied window film industries in the UK. With members in over 1,000 business locations - there is a GGF member in almost every UK town.

GGF has a Customer charter offering consumers:

- advice on where to buy
- advice on what to buy
- safeguarding of purchases
- quality service at all times
- continued customer care

website: www.ggf.org.uk

Simulation Results		Soft Wood Frame		3 chamber PVC-U		5 chamber PVC-U		Aluminum frame 5 mm fill & debridge		Aluminum frame 23 mm polyamide thermal break	
U-values calculated by CWCT using CEN radiation mode with BISCO		U-value/W/m ² .K	BTU/hr.ft ² .F	U-value/W/m ² .K	BTU/hr.ft ² .F	U-value/W/m ² .K	BTU/hr.ft ² .F	U-value/W/m ² .K	BTU/hr.ft ² .F	U-value/W/m ² .K	BTU/hr.ft ² .F
IGU Details U-value = 1.7 W/m ² .K/ .30 BTU/hr.ft ² .F Gap = 16 mm Fill = Air Coating = Pilk K	Spacer type*										
	Al. Standard type	1.98	.35	2.01	.35	1.98	.35	2.84	.50	2.33	.41
	Azon - Warmlight	1.89	.33	1.94	.34	1.91	.34	2.75	.48	2.26	.40
	Swiggle	1.87	.33	1.92	.34	1.88	.33	2.73	.48	2.25	.40
	TPS	1.83	.32	1.90	.33	1.83	.32	2.71	.48	2.21	.39
	Swiss spacer	not calc.	not calc.	1.90	.33	1.83	.32	not calc.	not calc.	not cal.	not calc.
	Super Spacer	1.83	.32	1.87	.33	1.79	.32	2.67	.47	2.17	.38
U-value = 1.4 W/m ² .K/ .25 BTU/hr.ft ² .F Gap = 16 mm Fill = Air Coating = Optitherm+	Al. Standard type	1.79	.32	1.82	.32	1.78	.31	2.63	.46	2.14	.38
	Azon - Warmlight	1.69	.30	1.73	.30	1.71	.30	2.54	.45	2.04	.36
	Swiggle	1.66	.29	1.71	.30	1.67	.29	2.52	.44	2.03	.36
	TPS	1.63	.29	1.69	.30	1.62	.29	2.50	.44	1.98	.35
	Swiss spacer	not calc.	not calc.	1.69	.30	1.62	.29	not calc.	not calc.	not cal.	not calc.
	Super Spacer	1.59	.28	1.66	.29	1.58	.28	2.46	.43	1.94	.34
	U-value = 1.16 W/m ² .K/ .20 BTU/hr.ft ² .F Gap = 16 mm gap Fill = 90% Argon Coating = Optitherm+	Al. Standard type	1.63	.29	1.66	.29	1.63	.29	2.47	.44	1.97
Azon - Warmlight		1.53	.27	1.57	.28	1.55	.27	2.38	.42	1.86	.33
Swiggle		1.50	.26	1.55	.27	1.51	.27	2.35	.41	1.85	.33
TPS		1.47	.26	1.54	.27	1.46	.26	2.33	.41	1.80	.32
Swiss spacer		not calc.	not calc.	1.53	.27	1.46	.26	not calc.	not calc.	not calc.	not calc.
Super Spacer		1.43	.25	1.49	.26	1.41	.25	2.29	.40	1.76	.31

*Spacer manufacturers tested: Pilkingtons: Aluminum standard type; Azon: Azon warmlight; TruSeal - Swiggle, Speedframe - TPS; St Gobain - Swiss Spacer; Edgetech - Super Spacer

*Source: GGF/DTI PowerPoint presentation given at Glassex 2004.

For a full copy of the results, contact Edgetech at 800.233.4383.

Edgetech

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