




News item 11th November 2009

Since achieving a fully certified class 'B' window energy rating, we have been working towards the ultimate 'A' rated PVC-U sash window. This is not an easy task as to date only 2 companies in the UK & Ireland have managed to get certification with an 'A' rating for PVC-U sliding sash.

The good news is that due to our unique **eurosash** sealing system, the addition of some new parts (thermally efficient frame enhancers) and by using a new slim-line bottom sash we managed to simulate an 'A' rating. The new 'A' rated window has reduced the overall U-Value of the window to 1.4W/ (m2.K) and has also increased the solar gain.

The new parts are on order and as soon as they are available for production we will be able to get the simulated report certified.

ENERGY RATING REPORT			
REPORT NUMBER: 1180			
Window System	Spectus Vertical Slider		
Size	1230mm x 1480mm VS		
Frame Material	PVC-U		
Outer Frame Reference	VS01		
Outer Frame Reinforcement	N/A		
Top Sash Reference	VS03		
Top Sash Reinforcement	VSR3S (steel)		
Bottom Sash Reference	VS03		
Bottom Sash Reinforcement	VSR3S (steel)		
Deep Bottom Rail Reference	N/A		
Deep Bottom Rail Reinforcement	N/A		
Cill Reference	VS02		
Glazing Bead Reference	VS07		
Glazing Bead Detail	PVC-U Bead with PVC Nitrile Co-Ex Gasket		
Gaskets	PVC Nitrile Bubble Co-extruded to profiles		
Weatherseals	Polypropylene 'Wool Pile'		
Bottom Weatherseal	PVC Nitrile Bubble		
Thermal Barrier	PVC Nitrile self adhesive twin barrier		
Glazing Description	24mm Double Glaze Unit (16mm Overlap)		
Outer Pane	4mm Diamant		
Inner Pane	4mm Planitherm Total		
Cavity	16mm 90% Argon		
Spacer Bar	Swisspacer V		
Primary Sealant	PIB		
Secondary Sealant	PU (4.5mm)		
RESULTS			
BFRC ENERGY RATING BAND	A		
BFRC Energy Rating Index	0	kWh/(m².yr)	
Thermal Transmittance (U_{window})	1.4	W/(m².K)	
Solar Factor (g_{window})	0.45		
Air Leakage Heat Loss (L_{factor})	0.01	W/(m².K)	
Prepared by:	Steve Wright (Certified Simulator No. 044) Chief Designer Spectus Window Systems		
Signed:			
Date:	11 th November 2009		
<p>The simulations in this report were performed using Therm 5.2.14 in accordance substantially with BS EN ISO 10077-2:2003</p>			
		 BFRC Certified Simulator 044	