



the **complete** solution

Eurocell Profiles Ltd Window Energy Rating Report

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Window Energy Rating Report

Please note, this report is confidential and must only be used by the named client
Refer to the executive summary for details as misuse of this report may carry penalties

Client	Eurocell Profiles Limited	EWER No.	204
Address	Fairbrook House Clover Nook Road Alfreton Derbyshire DE55 4RF Tel. 01773 842100	Simulation Ref.	VS021
		Date	4th September 2009

WINDOW SYSTEM DETAILS:		
Description:	Size:	Reinforcement:
Eurocell Vertical Sliding Sash Window B Rated	1.48m x 1.23m	As Per Manufacturing Guidelines

INSULATING GLASS DETAILS:				
Description:	External Panes:	Internal Pane:	Gas Fill Details:	Spacer Bar Details:
24mm Double Glazed Unit	4mm SG Diamant	4mm Saint Gobain Planitherm Total (coated on side 3)	90% Argon	Swisspacer V

RESULTS:		
Thermal Transmittance U window (W/m2K):	Energy Index:	Energy Rating Band:
1.5	-10	B

Executive Summary

- All Data contained within this report is the intellectual property of Eurocell Profiles Ltd and is confidential. It has been produced and supplied on the understanding that it is for the sole benefit of Eurocell Profiles and the named client.
- This report has been compiled from Thermal Simulation results, Solar Heat Gain calculation, BFRC Empirical climatic data and customer specific window construction details:-
 - Thermal simulations are performed using the latest version of LBNL Therm analysis software in accordance with the procedures defined in BS EN ISO10077-2:2003.
 - Solar Heat Gain values are obtained from the relevant glass/glazing manufacturer.
 - BFRC climatic data is taken from the latest version of BFRC Rating Calculations data sheet.
 - Air leakage values in line with BS6375:part 1 are taken from test reports issued by a UKAS registered test house to either the customer or Eurocell Profiles Ltd.
- Calculations have been rounded to the following places in line with BFRC policy:-
 - Energy Index (BFRC Rating) to nearest whole number.
 - A & B heat balance factors to 1 Decimal Place.
 - $U_{window, L50}$ & g_{window} to 2 Decimal Places.
 - Volume & linear measurement in metres to 3 Decimal Places.
 - BFRC scaling factor & L_{factor} , to 4 Decimal Places.
- The thermal conductivity for materials is taken from Annex A of BS EN 10077-2:2003, if otherwise materials thermal conductivity properties will be taken from manufacturers certified data.

Simulation carried out by:

Issue Date:

4th September 2009

Philip Parry
BFRC CERTIFIED SIMULATOR NO.023