

# BFRC Energy Rating Calculation Spreadsheet



TILT & TURN - OVOLO SUITE

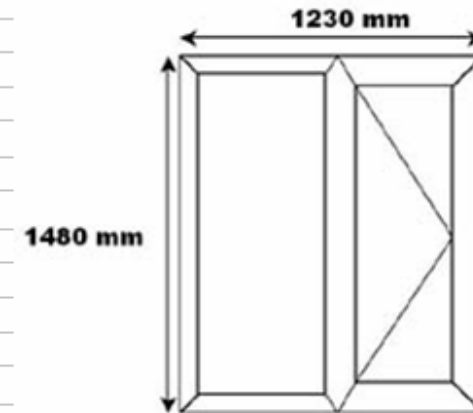
LARGE (70mm) OUTER FRAME

4mm FLOAT  
20mm ARGON  
4mm PLANITHERM TOTAL 1.1

EDGETECH SUPER SPACER

	Frame Dimensions		Thermal Conductivity		
	Projected Frame Height (mm)	Sight Line Height Worst Case (mm)	$U_{\text{frame+panel}}$	Panel Thickness (mm)	$U_{\text{frame+glass}}$
Fixed Outer Frame	70	70	1.152	28	1.336
Vent Frame (Vertical)	122	122	1.2359	28	1.4225
Vent Frame (Horizontal)	122	122	1.167	28	1.3524
Transom / Mullion	128	128	1.2025	28	1.4299

Overall Window Dimensions (mm)		Glazing Properties	
Height	1480	$U_g$ (Centre Pane Value)	1.19
Width	1230	Solar Heat Gain Coefficient ( $g_{\text{glass}}$ )	0.64
(Normal Value)			
Air Leakage Factor			
$L_{50}$ value	2.1	(Must be obtained from relevant accredited test report)	



Results	Thermal Transmittance	Solar Factor	Effective Air Leakage
	$U_{\text{window}}$ ( $W/m^2K$ )	$g_{\text{window}}$ ( $Wm^2K$ )	$L_{\text{factor}}$ ( $Wm^2K$ )
	1.4	0.37	0.03
	Energy Index	Energy Rating Band	
	-18	C	