

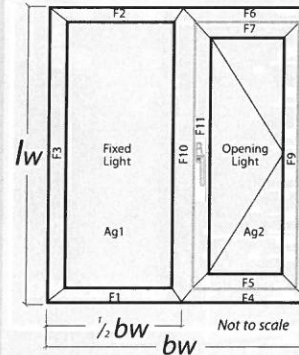
'U' - Values and Energy Ratings

(From computer simulations)

4-20-4 Planitherm Total, Argon, Diamant & Edgetech Super Spacer

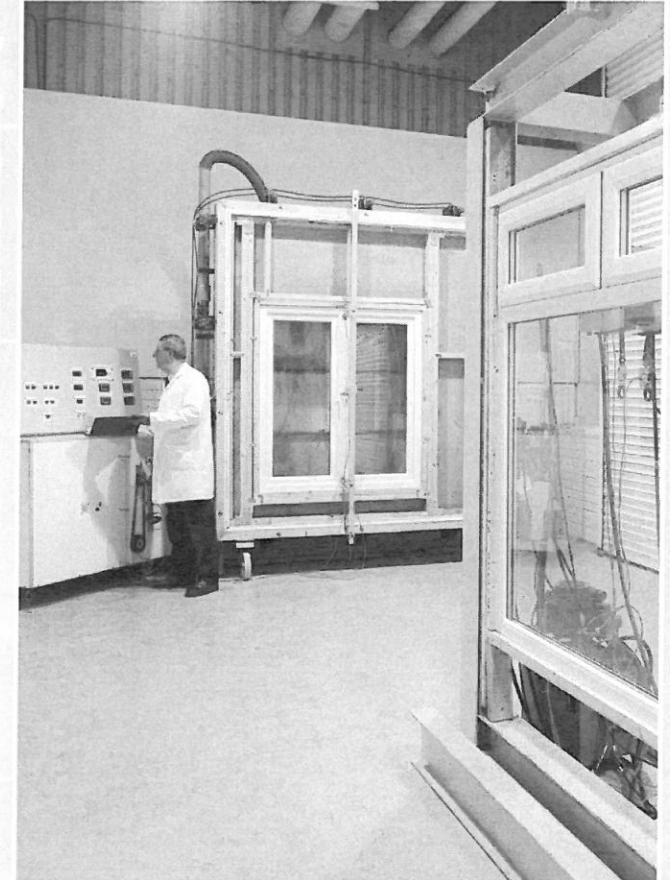
Frame:	b_f (with gaskets) (m)	U_f W/(m ² -K)	Frame areas (gaskets) m ²	Heat flow W/K	ψ W/(m-K)	l_g (m)	Heat flow W/K
Section							
F1 fixed sill	0.0540	1.3560	0.0308	0.0417	0.0260	0.5250	0.0137
F2 fixed head	0.0540	1.3560	0.0308	0.0417	0.0260	0.5250	0.0137
F3 fixed jamb	0.0540	1.3560	0.0770	0.1044	0.0260	1.3720	0.0357
F4 + F5 sash sill	0.1035	1.4698	0.0543	0.0798	0.0260	0.4260	0.0111
F6 + F7 sash head	0.1035	1.4698	0.0543	0.0798	0.0260	0.4260	0.0111
F8 + F9 sash jamb	0.1035	1.6244	0.1425	0.2314	0.0270	1.2730	0.0344
F10 + F11 mullion	0.1215	1.7255	0.1681	0.2901	0.0540	1.3225	0.0714
Totals			0.5578	0.8691		Total	0.1909

Sample Style: Casement



Fixed Light/ Side Hung

Blue line illustrates
opening light length
(air leakage)



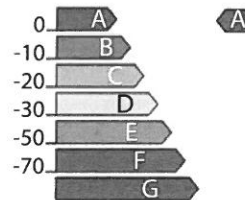
Air Leakage loss:

Air leakage at 50 Pa per hour & per unit length of opening light (BS 6375-1) - ZDP				0.13	m ³ /(m-h)
Opening light length	3.7940	m	Total air leakage	0.493	m ³ /h
L_{50}	0.27	m ³ /(m-h)	Heat loss = 0.0165 L_{50}	0.00	W/(m ² K)

Window 'U' - Value = 1.41 W/m²K

Domestic Window Energy Rating (DWER)

Pane	g_L	% glass	F_w	g_w	L factor W/m ² K	DWER kWh/m ² /Yr
Left	0.71	39.57	0.9	0.44	0.13	-0.40
Right	0.71	29.79				



4-20-4 OptiWhite, Argon, K-glass & Edgetech Super Spacer

Window 'U' - Value = 1.6117 W/m²K

Domestic Window Energy Rating (DWER)

Pane	g_L	% glass	F_w	g_w	L factor W/m ² K	DWER kWh/m ² /Yr
Left	0.78	37.76	0.9	0.4867	0.01	-4.69
Right	0.78	31.57				

4-20-4 Clear Float, Argon, K-glass & Edgetech Super Spacer

Window 'U' - Value = 1.6302 W/m²K

Domestic Window Energy Rating (DWER)

Pane	g_L	% glass	F_w	g_w	L factor W/m ² K	DWER kWh/m ² /Yr
Left	0.72	37.76	0.9	0.4493	0.01	-14.14
Right	0.72	31.57				

4-20-4 Clear Float, Argon, K-glass & Standard Spacer

Window 'U' - Value = 1.8296 W/m²K

Domestic Window Energy Rating (DWER)

Pane	g_L	% glass	F_w	g_w	L factor W/m ² K	DWER kWh/m ² /Yr
Left	0.72	37.76	0.9	0.4493	0.01	-27.80
Right	0.72	31.57				