

# WER, DER & U Value Performance

## Double Glazed Units

## Triple Glazed Units

Glass spec
Std/Low-iron
Glass centre pane U-value
Glass solar gain factor
Window/Door Product
Window System 1
Window System 2
Window System 5
Visofold Bifold Doors
Visoglide Patio Doors
Alitherm Plus Doors - open in
Alitherm Plus Doors - open out

Double glazed unit - 28mm/Softcoat/Argon/Superspacer			
Float		Low-iron	
1.2		1.2	
0.71		0.74	
WER/DER	U-value	WER/DER	U-value
B (-4)	1.6	A (+1)	1.6
B (-3)	1.6	A (+1)	1.6
B (-2)	1.6	A (+2)	1.6
n/a	1.7	n/a	1.7
n/a	1.8	n/a	1.8
E	1.8	E	1.8
E	1.9	E	1.9

Triple glazed unit - 36/32mm/Softcoat/Argon/Superspacer			
Float		Low-iron	
0.8 (36mm) 0.9 (32mm)		0.8 (36mm) 0.9 (32mm)	
0.62		0.64	
WER/DER	U-value	WER/DER	U-value
n/a	n/a	n/a	n/a
A (+0)	1.4 (36mm)	A (+3)	1.4 (36mm)
B (-0)	1.4 (36mm)	A (+3)	1.4 (36mm)
n/a	1.4 (36mm)	n/a	1.4 (36mm)
n/a	1.4 (36mm)	n/a	1.4 (36mm)
C	1.5 (32mm)	C	1.5 (32mm)
C	1.6 (32mm)	C	1.6 (32mm)

Note:  
 Building control requires doors to satisfy **either** a U-value of 1.8 or lower **or** a DER of E or better.  
 Building control requires windows to satisfy **either** a U-value of 1.6 or lower **or** a WER of C or better.  
 All REAL Aluminium products when used in conjunction with the glass specifications above satisfy current Building Regulations Part L for refurbishment and new-build applications.  
 The addition of Low Iron glass will not improve U values but will improve WER/DER rating due to solar gain.  
 The addition of Triple Glazing will improve U values but due to reduced solar gain has limited effect on WER/DER ratings.