

**Acoustic Table : 02 2021**

**Common Double Glazed units 'Standard Glazing'**

width	Rw	RW+Ctr	outer pane	cavity	inner pane	U-Values	
						W/m2.K	W/m2.K with P1
28mm	33db	28db	4mm clear	20mm Ar	4mm PT+	1.2	1.1
28mm	33db	28db	6mm clear	16mm	6mm PT+	1.2	1.0
28.8mm	34db	29db	6.8mm clear	18mm Ar	4mm PT+	1.2	1.0
28.8mm	37db	31db	6.8mm clear	16mm Ar	6mm PT+	1.2	1.0
28mm	35db	30db	6mm clear	18mm Ar	4mm PT+	1.2	1.1
26.8mm	36db	30db	6.8mm acoustic	16mm Ar	4mm PT+	1.2	1.0
28.8mm	38db	32db	6.8mm acoustic	18mm Ar	4mm PT+	1.2	1.0
28.8mm	39db	33db	6.8mm acoustic	16mm Ar	6mm PT+	1.2	1.0

**Higher performing and other options**

width	Rw	RW+Ctr	outer pane	cavity	inner pane	U-Values	
						W/m2.K	W/m2.K with P1
28mm	37db	34db	10mm clear	12mm Ar	6mm PT+	1.3	1.2
27.6mm	39db	33db	6.8mm acoustic	14mm Ar	6.8mm PT+	1.2	1.1
28.8mm	39db	33db	6.8mm Clear	12mm Ar	10mm PT+	1.3	1.2
27.6mm	40db	34db	8.8mm acoustic	12mm Ar	6.8mm PT+	1.3	1.2
27.6mm	40db	35db	8.8mm Clear	10mm Ar	8.8mm acoustic PT+	1.5	n/a
28.8mm	41db	35db	8.8mm acoustic	14mm Ar	6mm PT+	1.3	1.1
28.8mm	41db	35db	6.8mm acoustic	12mm Ar	10mm PT+	1.3	1.2
27.6mm	41db	35db	6.8mm acoustic	12mm Ar	8.8mm acoustic PT+	1.3	n/a
27.6mm	42db	36db	8.8mm acoustic	10mm Ar	8.8mm acoustic PT+	1.5	n/a
35.6mm	43db	37db	6.8mm acoustic	20mm Ar	8.8mm acoustic PT+	1.2	n/a
36.8mm	45db	39db	10.8mm acoustic	16mm Ar	10mm PT+	1.2	n/a
35.6mm	47db	39db	10.8mm acoustic	16mm Ar	8.8mm acoustic PT+	1.2	n/a
35.6mm	47db	40db	12.8mm acoustic	14mm Ar	8.8mm acoustic PT+	1.2	n/a
44.3mm	50db	42db	13.5mm acoustic	22mm Ar	8.8mm acoustic PT+	1.2	n/a
43.6mm	50db	42db	12.8mm acoustic	22mm Ar	8.8mm acoustic PT+	1.2	n/a
51.6mm	54db	49db	14.8mm acoustic	24mm Ar	12.8mm acoustic PT+	1.2	n/a

1.1W/m2.K with Krypton

1.1W/m2.K with Krypton

**Common Triple Glazing**

width	Rw	RW+Ctr	outer pane	1st cavity	middle pane	2nd Cavity	inner pane	U-Values		
								W/m2.K	W/m2.K P1	W/m2.K P1 + Kr
28mm	27db	24db	4mm clear	8mm Ar	4mm T PT+	8mm Ar	4mm PT+	1.0	0.9	
44mm	32db	27db	4mm clear	16mm Ar	4mm T PT+	16mm Ar	4mm PT+	0.6	0.5	0.4
36mm	32db	27db	4mm clear	12mm Ar	4mm T PT+	12mm Ar	4mm PT+	0.8	0.7	0.4
36.8mm	34db	29db	6.8mm clear	10mm Ar	4mm T PT+	12mm Ar	4mm PT+	0.8	0.7	0.5
28.8mm	35db	31db	6.8mm acoustic	8mm Ar	4mm T PT+	6mm Ar	4mm PT+	1.1	1.0	0.7
28.8mm	35db	31db	4mm clear	6mm Ar	4mm T PT+	8mm Ar	6.8mm acoustic PT+	1.1	n/a	
43.6mm	44db	37db	6.8mm acoustic	10mm Ar	6mm T PT+	10mm Ar	10.8mm acoustic	1.2	n/a	
43.6mm	45db	39db	10.8mm acoustic	10mm Ar	4mm T PT+	10mm Ar	8.8mm acoustic PT+	0.9	n/a	
43.6mm	45db	40db	6.8mm acoustic	12mm Ar	6mm T PT+	10mm Ar	8.8mm acoustic PT+	0.8	n/a	

**Notes**

The higher the number, the better the noise reduction, db = decibels.  
 Rw is the average reduction across the frequency range of the human ear.  
 Rw + Ctr is the frequency range specific to road noise  
 Double glazing options are better than triple glazing.  
 Triple glazing may be needed for better U-Values - W/m2.K  
 Glass selection used is the most cost effective and readily available.  
 Unit width based on most common glazing bead options for for UK market.  
 14.8mm & 6.8mm PT+ acoustic are made to order.  
 Other options can be calculated on request.  
 Data sheets available on request and from [www.regencyglass.co.uk](http://www.regencyglass.co.uk)  
 PT+ = Planitherm Total+ Ar = Argon gas filled  
 P1 = Planitherm One Kr = Krypton gas filled  
 Acoustic = acoustic laminated glass  
 Highlighted blue are the standard glazing options as a benchmark.



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