



THE SASH  
WINDOW  
WORKSHOP

## Sound Reduction Summary





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# WEIGHTED SOUND REDUCTION (Rw) FOR SINGLE GLAZED & INSULATED GLASS UNITS

(ALL FIGURES IN DB)

STANDARD FLOAT GLASS SINGLE PANE		
Thickness	Rw	Ref
4mm Float	29	A2 (A1)
6mm Float	31	A2
8mm Flot	32	A2
10mm Float	33	A2
12mm Float	34	A2
Nb Ref A2 - As Per Pilkington - Ref A1 - Glass Solutions state 30Rw		

ACOUSTIC INSULATING GLASS UNIT ( 6mm - 20mm Spacer)		
Thickness	Rw	Ref
5mm / 7mm 7.8mm	36	A3
5mm / 12mm 6.8mm	36	A3
6mm / 12 8mm / 8.8mm	39	A3
6mm / 15mm / 8.8mm	39	A3
6mm / 16mm 8.8mm	39	A3
8mm / 15mm 8.8mm	41	A3
Nb Ref A3 - As Per Glass Solutions		

STD FLOAT GLASS INSULATING GLASS UNIT ( 6 - 20mm Spacer)		
Thickness	Rw	Ref
4mm / 6 - 20mm / 4mm	29	A2
6mm / 6 - 20mm / 6mm	31	A2
6mm / 6 - 20mm / 4mm	32	A2
10mm / 6 - 20mm / 4mm	35	A2
10mm / 6 - 20mm / 6mm	35	A2
Nb Ref A2 As Per Pilkington		

ACOUSTIC INSULATING GLASS UNIT ( 6mm - 20mm Spacer)		
Thickness	Rw	Ref
6mm / 6 - 20mm / 6.8mm	38	A2
6mm / 6 - 20mm / 8.8mm	41	A2
6mm / 6 - 20mm / 10.8mm	42	A2
6mm / 6 - 20mm / 12.8mm	42	A2
8.8mm Acc / 6 - 20mm / 12.8mm A	47	A2
16.8mm Acc / 6 - 20mm / 16.8mm	48	A2
Nb Ref A2 - As per Pilkington		

ACOUSTIC GLASS SINGLE PANE		
Thickness	Rw	Ref
6.8mm Accoustic	35	a
8.8mm Accoustic	37	a
10.8mm Accoustic	38	a
12.8mm Accoustic	39	a
16.8mm Accoustic	40	b
Nb Ref A - As per Pilkington & Glass Solutions/ Ref B Pilkington		

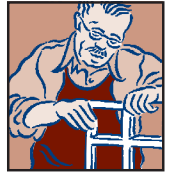
ACOUSTIC INSULATING GLASS UNIT ( 10mm Spacer)			
Thickness	Rw	Ref	Comments
4mm / 10mm / 6.8mm	36	A1	Sash Minimum 44mm Thick
4mm / 10mm / 8.8mm	38	A1	Sash Minimum 46mm Thick
4mm / 10mm / 10.8mm	39	A1	Sash Minimum 48mm Thick
4mm / 10mm / 12.8mm	39	A1	
Nb Ref A1 -As Per Glass Solutions			<b>TSWW PREFERRED OPTIONS</b>

ACOUSTIC INSULATING GLASS UNIT ( 10mm Spacer)			
Thickness	Rw	Ref	Comments
6mm / 10mm / 6.8mm	38	A1	Sash Minimum 46mm Thick
6mm / 10mm / 8.8mm	39	A1	Sash Minimum 48mm Thick
6mm / 10mm / 10.8mm	40	A1	
6mm / 10mm / 12.8mm	40	A1	
Nb Ref A1 - As Per Glass Solutions			



## Acoustic Rating Chart

	ALL DGUS USING SUPERSPACER WITH ARGON FILL						Single Glazed	
	DB Rw		DB Rw		DB Rw		DB Rw	
<b>Std unit</b>	4P/5LI		4P/8/LI		4P/10/LI		4F	30
Options	4P/5/6.8	N/A	4P/8/6.8	N/A	4P/10/6.8	36	6.8	35
Options	4P/5/8.8	N/A	4P/8/8.8	N/A	4P/10/8.8	38	8.8	37
Options	4P/5/10.8	N/A	4P/8/10.8	N/A	4P/10/10.8	39	10.8	38
Options	4P/5/12.8	N/A	4P/8/12.8	N/A	4P/10/12.8	39	12.8	39
Options	6P/5/6.8	N/A	6P/8/6.8	N/A	6P/10/6.8	38		
Options	6P/5/8.8	N/A	6P/8/8.8	N/A	6P/10/8.8	39		
Options	6P/5/10.8	N/A	6P/8/10.8	N/A	6P/10/10.8	40		
Options	6P/5/12.8	N/A	6P/8/12.8	N/A	6P/10/12.8	40		



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## Acoustic Ratings

GLASS	THICKNESS	LABORATORY	YEAR	TEST NUMBER	Rw
5 (7) 6.8A	19	TNO	2003	2003207	36 **
5(12) 6.8A	24	TNO	2003	2003206	36
6 (12) 8.4A	26	CSI	2006	CSI2006036	38
6 (12) 8.8A	27	CSI	2006	CSI2006035	39 **
6 (16) 8.4A	30	CSI	2006	CSI2006048	40
6 (15) 8.8A	30	TNO	2003	TNO2003208	39
6 (16) 8.8A	31	CSI	2006	CSI2006030	39
6 (12) 9.5 A	27.5		2000	625773	39
6 (15) 12.4A	33	CSTC	2002	CSTC2002253	42
8 (12) 8.4A	28	CSI	2006	CSI2006034	40
8 (15) 8.8A	32	CDI	2005	700232	41

Argon and Krypton will not make any difference in acoustic performance.

The cavity does not make any acoustic difference up to 20mm cavity.