

Acoustic Performance Summary

Acoustic Performance

The following information is a summary of tests and assessments carried out in accordance with BS EN ISO 10140-2 for measurements of airborne sound insulation of building elements and that the resulting Rw measurements are derived from BS EN ISO 717/1.

Glass Type / Combination		Glass to Glass Joint Construction	Construction Height (mm)	Acoustic Performance	Acoustic Performance Summary
Office Side	Corridor Side				
Fineline Single Offset Glazed					
10mm Toughened	---	dry joint	2700	34dB(Rw)	FSG-AP1
12mm Toughened	---	dry joint	3000	36dB(Rw)	FSG-AP2
12.8mm Acoustic	---	dry joint	3000	40dB(Rw)	FSG-AP3
Clear Single Glazed					
10mm Toughened	---	dry joint	2700	34dB(Rw)	CSG-AP1
12mm Toughened	---	dry joint	3000	36dB(Rw)	CSG-AP2
12.8mm Acoustic	---	dry joint	3000	40dB(Rw)	CSG-AP3
Clear Single Glazed with 2 Part +/- 25mm Deflection Head					
10mm Toughened	---	dry joint	2700	34dB(Rw) ⁽¹⁾	CSG-AP7
12mm Toughened	---	dry joint	3000	36dB(Rw) ⁽¹⁾	CSG-AP8
12.8mm Acoustic	---	dry joint	3000	40dB(Rw) ⁽¹⁾	CSG-AP9
Clear Double Glazed with Mullion					
6mm Toughened	10mm Toughened	nail and silicon cap joints	2700	42dB(Rw) ⁽¹⁾	CDG-AP3
10mm Toughened	12.8mm Acoustic	nail and silicon cap joints	3000	48dB(Rw) ⁽¹⁾	CDG-AP4
10.8mm Acoustic	12.8mm Acoustic	nail and silicon cap joints	3000	49dB(Rw) ⁽¹⁾	CDG-AP5
12.8mm Acoustic	12.8mm Acoustic	nail and silicon cap joints	3000	50dB(Rw) ⁽¹⁾	CDG-AP10
Fineline Double Glazed					
12.8mm Acoustic	12.8mm Acoustic	dry joint	3000	46dB(Rw)	FDG-AP1
Clear Line 75mm Double Glazed					
10mm Toughened	10mm Toughened	dry joint	2400	42dB(Rw)	CDG-AP19
10mm Toughened	12mm Toughened	dry joint	2700	43dB(Rw)	CDG-AP6
12mm Toughened	12mm Toughened	dry joint	3000	45dB(Rw) ⁽¹⁾	CDG-AP7
10mm Toughened	12.8mm Acoustic	dry joint	2700	48dB(Rw)	CDG-AP8
10.8mm Acoustic	12.8mm Acoustic	dry joint	2700	49dB(Rw)	CDG-AP9
12.8mm Acoustic	12.8mm Acoustic	dry joint	3000	50dB(Rw)	CDG-AP11

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continued

Plasterboard Type / Combination		Glass to Glass Joint Construction or Cavity Insulation	Construction Height (mm)	Acoustic Performance	Acoustic Performance Summary
Office Side	Corridor Side				
Clear Line 100mm Double Glazed					
10mm Toughened	12mm Toughened	dry joint	2700	48dB(Rw)	CDG-AP26
12mm Toughened	12mm Toughened	dry joint	3000	47dB(Rw)	CDG-AP27
12mm Toughened	12.8mm Acoustic	dry joint	3000	51dB(Rw)	CDG-AP28
10.8mm Acoustic	12.8mm Acoustic	dry joint	2700	51dB(Rw)	CDG-AP29
12.8mm Acoustic	12.8mm Acoustic	dry joint	3000	54dB(Rw)	CDG-AP20
F10 100mm Double Glazed					
10mm Toughened	12mm Toughened	dry joint	2700	48dB(Rw)	CDG-AP22
12mm Toughened	12mm Toughened	dry joint	3000	47dB(Rw)	CDG-AP23
12mm Toughened	12.8mm Acoustic	dry joint	3000	51dB(Rw)	CDG-AP24
10.8mm Acoustic	12.8mm Acoustic	dry joint	2700	51dB(Rw)	CDG-AP25
12.8mm Acoustic	12.8mm Acoustic	dry joint	3000	54dB(Rw)	CDG-AP21
Clear Line 75mm Double Glazed with 2 Part +/- 25mm Deflection Head					
10mm Toughened	12mm Toughened	dry joint	2700	43dB(Rw) ⁽¹⁾	CDG-AP14
12mm Toughened	12mm Toughened	dry joint	3000	45dB(Rw) ⁽¹⁾	CDG-AP15
10mm Toughened	12.8mm Acoustic	dry joint	2700	48dB(Rw) ⁽¹⁾	CDG-AP16
10.8mm Acoustic	12.8mm Acoustic	dry joint	2700	49dB(Rw) ⁽¹⁾	CDG-AP17
12.8mm Acoustic	12.8mm Acoustic	dry joint	3000	50dB(Rw) ⁽¹⁾	CDG-AP18
75mm Solid Plasterboard Partitioning System					
1 x 12.5 Wallboard	1 x 12.5 Wallboard	25mm Isover	3000	40dB(Rw)	F75-AP1
1 x 12.5 SoundBloc	1 x 12.5 SoundBloc	25mm Isover	3000	43dB(Rw)	F75-AP2
75mm Solid Plasterboard Partitioning System with 2 Part +/- 25mm Deflection Head					
1 x 12.5 Wallboard	1 x 12.5 Wallboard	25mm Isover	3000	40dB(Rw)	F75-AP3
1 x 12.5 SoundBloc	1 x 12.5 SoundBloc	25mm Isover	3000	43dB(Rw)	F75-AP4

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Plasterboard Type / Combination		Glass to Glass Joint Construction or Cavity Insulation	Construction Height (mm)	Acoustic Performance	Acoustic Performance Summary
Office Side	Corridor Side				
100mm Solid Plasterboard Partitioning System					
2 x 12.5 Wallboard	2 x 12.5 Wallboard	25mm Isover	3000	49dB(Rw)	F100-AP1
2 x 12.5 SoundBloc	2 x 12.5 SoundBloc	25mm Isover	3000	52dB(Rw)	F100-AP2
100mm Solid Plasterboard Partitioning System with 2 Part +/- 25mm Deflection Head					
2 x 12.5 Wallboard	2 x 12.5 Wallboard	25mm Isover	3000	49dB(Rw)	F100-AP3
2 x 12.5 SoundBloc	2 x 12.5 SoundBloc	25mm Isover	3000	52dB(Rw)	F100-AP4

Type & Thickness	Partition Door Frame Type / Code	Door frame Seals	Door Seals	Threshold Seal	Vision Panel glazed Area	Acoustic Performance	Acoustic Performance Summary
Timber Doors							
44mm Solid core	Aluminium - F04	G20	INT05S / INT06S	FT-EN	none	37dB(Rw)	FTD-AP1
44mm Solid core	Timber - Hardwood	Batwing	INT02S / INT02S	FT-EN	none	36dB(Rw) ⁽¹⁾	FTD-AP2
44mm Solid core	MDF Veneered	Batwing	INT02S / INT02S	FT-EN	none	36dB(Rw) ⁽¹⁾	FTD-AP3
44mm Solid core	Aluminium - F54	G20	brush seal	FT-EN	none	36dB(Rw) ⁽¹⁾	FTD-AP4
54mm Solid core	Aluminium - F54	G20	brush seal	FT-EN	none	36dB(Rw) ⁽¹⁾	FTD-AP5
Frameless Glass Doors in Single Glazed							
12mm Toughened	Aluminium - S04	G20	none	none	n/a	28dB(Rw) ⁽¹⁾	CSG-AP5
12mm Toughened	Aluminium - S04	G20	none	KT-F12	n/a	31dB(Rw) ⁽¹⁾	CSG-AP6
Frameless Glass Doors in Double Glazed							
12mm Toughened	Aluminium - F03	G20	none	none	n/a	28dB(Rw) ⁽¹⁾	CDG-AP12
12mm Toughened	Aluminium - F03	G20	none	KT-F12	n/a	31dB(Rw) ⁽¹⁾	CDG-AP13

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Type & Thickness	Partition Door Frame Type / Code	Door frame Seals	Door Seals	Threshold Seal	Vision Panel glazed Area	Acoustic Performance	Acoustic Performance Summary
Contempo Aluminium Framed Glazed Doors							
12mm Toughened	Aluminium - F04	G20	twin brush	FT-EN	1.37m ²	36dB(Rw) ⁽¹⁾	CGD-AP10
12.8mm Acoustic	Aluminium - F04	G20	twin brush	FT-EN	1.37m ²	40dB(Rw)	CGD-AP1
2 x 6mm Toughened	Aluminium - F04	G20	twin brush	FT-EN	1.37m ²	41dB(Rw)	CGD-AP2
Type 'S' d/glazed	Aluminium - F10-F04	G20	twin brush	FT-EN	1.37m ²	46dB(Rw)	CGD-AP7
Contempo 54mm Rebated Aluminium Framed Glazed Doors							
2 x 6mm Toughened	Aluminium - F10-F04	G20	twin brush	FT-EN	1.37m ²	41dB(Rw)	CGD-AP8
Type '54S' d/glazed	Aluminium - F10-F04	G20	twin brush	FT-EN	1.37m ²	46dB(Rw)	CGD-AP11
Contempo Glide Aluminium Framed Sliding Glazed Doors							
12.8mm Acoustic	Aluminium - SD3/SD4	twin brush	twin brush	FT-EN	2.04m ²	36dB(Rw)	CGD-AP3
12mm Toughened	Aluminium - SD3/SD4	twin brush	twin brush	FT-EN	2.04m ²	34dB(Rw)	CGD-AP4
Contempo Glide Pocket Aluminium Framed Sliding Glazed Doors							
12.8mm Acoustic	Alum. - SD75.3/SD75.4	twin brush	twin brush	FT-EN		42dB(Rw)	CGD-AP5
12mm Toughened	Alum. - SD75.3/SD75.4	twin brush	twin brush	FT-EN		39dB(Rw)	CGD-AP6
Type 'S' d/glazed	Alum. - SD75.3/SD75.4	twin brush	twin brush	FT-EN		47dB(Rw)	CGD-AP9

NOTE

⁽¹⁾ The performance rating stated has been assessed based on actual Fusion partitioning systems laboratory test results in conjunction with other published industry manufactures performance tables.