



Sound Rating

The testing was completed at AIRO (Acoustical Investigation and Research Organisation Ltd). All tests used 60kg/m³ rockwool infill for the voids and panels.

Sound Reduction of a Solid Partition

Frequency Hz	Sound Reduction Index dB	Frequency Hz	Sound Reduction Index dB
100	8.6	630	37.5
125	9.4	800	39.7
160	18.1	1000	41.8
200	22.8	1250	44.2
250	25.4	1600	43.6
315	26.6	2000	44.6
400	30.6	2500	48.4
500	34.5	3150	48.1

The Weighted Sound Reduction Index, $R_w = 34$ dB (**BS 5821:Part 1:1984**)

Sound Reduction of a Double Glazed Partition

Frequency Hz	Sound Reduction Index dB	Frequency Hz	Sound Reduction Index dB
100	11.9	630	38.3
125	12.1	800	40.6
160	21.7	1000	42.5
200	25.4	1250	44.3
250	25.2	1600	44.2
315	29.5	2000	44.1
400	30.8	2500	44.9
500	34.8	3150	43.4

The weighted sound reduction index $R_w = 36$ dB (**BS 5821:Part 1:1984**)

Sound Reduction of a Single Glazed Partition

Frequency Hz	Sound Reduction Index dB	Frequency Hz	Sound Reduction Index dB
100	11.1	630	36.0
125	14.0	800	37.1
160	20.1	1000	38.6
200	23.8	1250	38.4
250	25.6	1600	36.2
315	28.2	2000	33.5
400	38.9	2500	33.0
500	33.4	3150	35.7

The weighted sound reduction index $R_w = 34$ dB (**BS 5821:Part 1:1984**)

All the panels tested in accordance with **BS 2750:Part 3:1980** and **BS 5821:Part 1:1984**