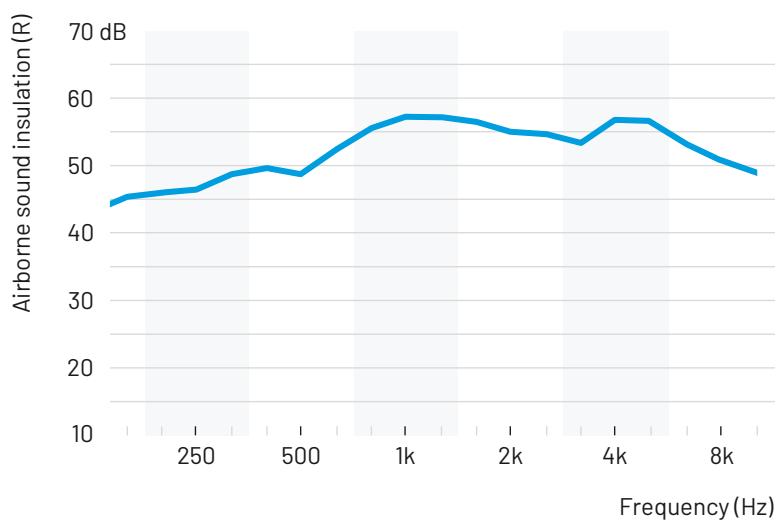


M56L door

Laboratory measurements of sound insulation of the Merford type M56L door

Laboratory: Cauberg-Huygen Zwolle
 Test element: door type M56L
 Manufacturer: Merford Special Doors

Project nr.: 991169-1A
 Area, S, of test element: 2,0 m²
 Mass per unit area M56L: 68 kg/m²
 Receiving room volume: 89 m³



Sound insulation measurements on M56L door took place in a laboratory. Single leaf, size 950 x 2100 mm, with treshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, treshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 56$ dB
 C -1 dB
 Ctr -2 dB

Ra traffic	51,1 dB
Ra rail traffic	54,2 dB
Ra air traffic	52,6 dB
Ra background	52,0 dB
Ra dance	48,2 dB
Ra ultra bass	39,3 dB
Ra metalworking	52,6 dB
Ra woodworking	49,6 dB
Ra voice	51,2 dB
Ra industry	49,6 dB
Ra cinema	46,3 dB
Ra pop	50,2 dB
Ra house	44,8 dB
Ra HES	42,6 dB
Ra ambient	51,1 dB

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	33,1	
63	32,6	34,2
80	39,5	
100	41,0	
125	43,8	43,0
160	45,3	
200	46,2	
250	46,7	47,1
315	48,8	
400	49,6	
500	48,8	50,0
630	52,5	
800	55,4	
1000	57,1	56,4
1250	57,0	
1600	56,5	
2000	54,9	55,4
2500	54,8	
3150	53,7	
4000	56,8	55,4
5000	56,4	
6300	53,5	
8000	50,8	50,9
10000	49,4	