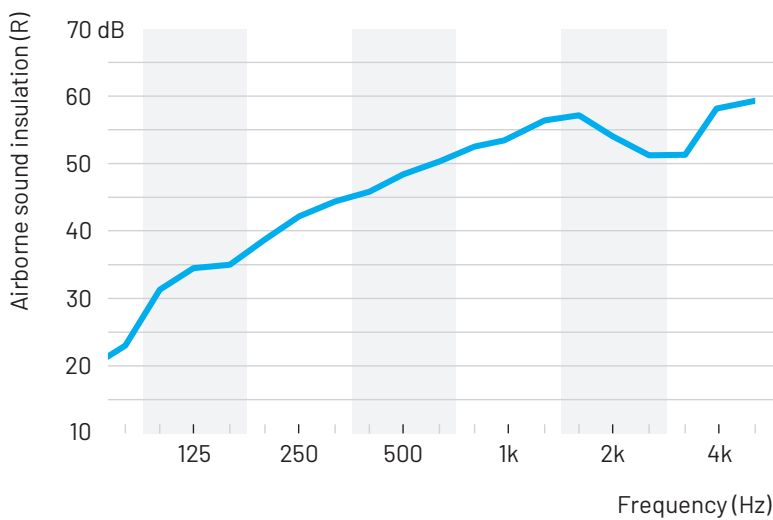


M51 door

Laboratory measurements of sound insulation of the Merford type M51 door

Laboratory: Cauberg-Huygen Zwolle
 Test element: door type M51
 Manufacturer: Merford Special Doors

Project nr.: 20100880
 Area, S, of test element: 2,1 m²
 Mass per unit area M41: 49 kg/m²
 Receiving room volume: 86 m³



Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	29,8	
63	18,0	34,8
80	22,6	
100	30,7	
125	34,8	41,3
160	35,1	
200	38,9	
250	42,3	47,6
315	44,8	
400	45,5	
500	48,4	53,8
630	50,1	
800	52,4	
1000	53,9	53,8
1250	55,9	
1600	56,6	
2000	54,7	53,1
2500	50,4	
3150	50,5	
4000	58,3	54,2
5000	59,8	

Sound insulation measurements on M51 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, single point lock, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: R_w = 51 dB
 C -2 dB
 C_{tr} -6 dB
 STC 50 (with two compression latches STC 51)

The M51 door is only available with with fire rated classification EW 30, E₁ 30, E₁ 30, EW 60, E₁ 60, E₁ 60, EW 90, E₁ 90, E₁ 90 or EW 120.

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