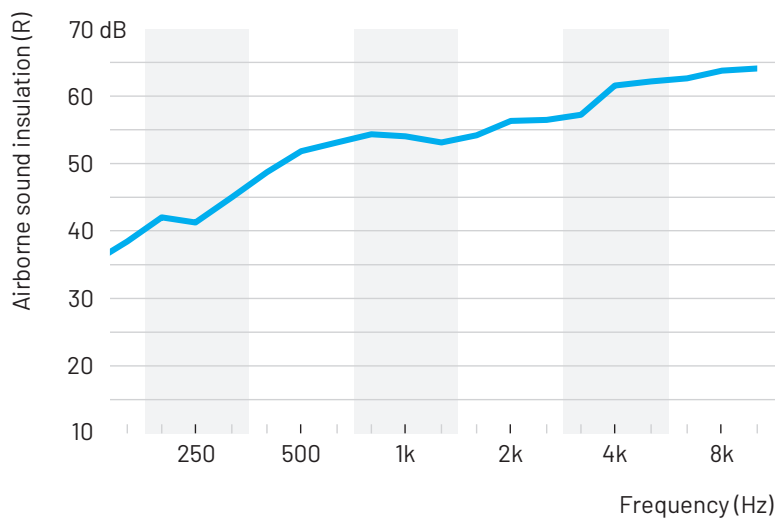


# M52 door

Laboratory measurements of sound insulation of the Merford type M52 door

Laboratory: Merford Gorinchem  
 Test element: door type M52  
 Manufacturer: Merford Special Doors

Area, S, of test element: 2,1 m<sup>2</sup>  
 Mass per unit area M52: 52 kg/m<sup>2</sup>  
 Receiving room volume: 110 m<sup>3</sup>



Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct 51,0(dB)
50	20,2	
63	14,1	17,1
80	19,8	
100	31,0	
125	35,0	33,8
160	38,5	
200	41,9	
250	41,0	42,3
315	44,9	
400	48,8	
500	51,9	50,8
630	52,9	
800	54,3	
1000	54,0	54,0
1250	53,8	
1600	54,6	
2000	55,8	55,4
2500	56,0	
3150	56,7	
4000	61,1	59,2
5000	61,6	
6300	62,5	
8000	63,9	63,4
10000	64,0	

Sound insulation measurements on M52 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, 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:  $R_w = 52$  dB  
 C 0 dB  
 Ctr -6 dB  
 STC 53

The M52 door is only available with with fire rated classification EW 30, E<sub>1</sub> 30, E<sub>1</sub> 30, EW 60, E<sub>1</sub> 60, E<sub>1</sub> 60, EW 90, E<sub>1</sub> 90, E<sub>1</sub> 90, EW 120 or E 240.

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