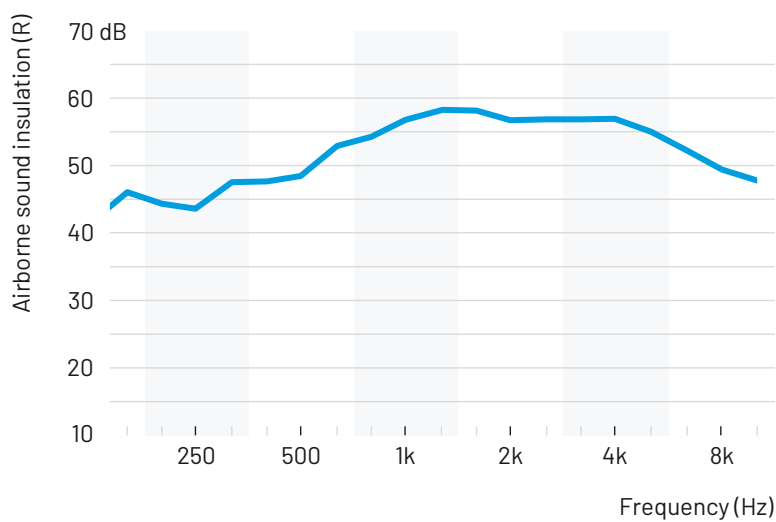


# M56 door

Laboratory measurements of sound insulation of the Merford type M56 door

Laboratory: Cauberg-Huygen Zwolle  
 Test element: door type M56  
 Manufacturer: Merford Special Doors

Project nr.: 991169-1A  
 Area, S, of test element: 2,0 m<sup>2</sup>  
 Mass per unit area M56: 62 kg/m<sup>2</sup>  
 Receiving room volume: 89 m<sup>3</sup>



Sound insulation measurements on M56 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:  $R_w = 56$  dB

The M56 door is available without fire rating or with fire rated classification EW30, EI230, EI130, EW60, EI260, EI160, EW90, EI290, EI190 or EW120 (and E 240 on demand).

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	32,2	
63	20,6	23,9
80	25,3	
100	38,7	
125	41,8	41,2
160	45,9	
200	44,6	
250	43,8	45
315	47,1	
400	47,2	
500	48,4	48,9
630	52,5	
800	54,3	
1000	56,5	56,0
1250	57,9	
1600	57,8	
2000	56,6	57,0
2500	56,8	
3150	56,8	
4000	56,8	56,1
5000	55,0	
6300	52,3	
8000	49,7	49,6
10000	47,9	