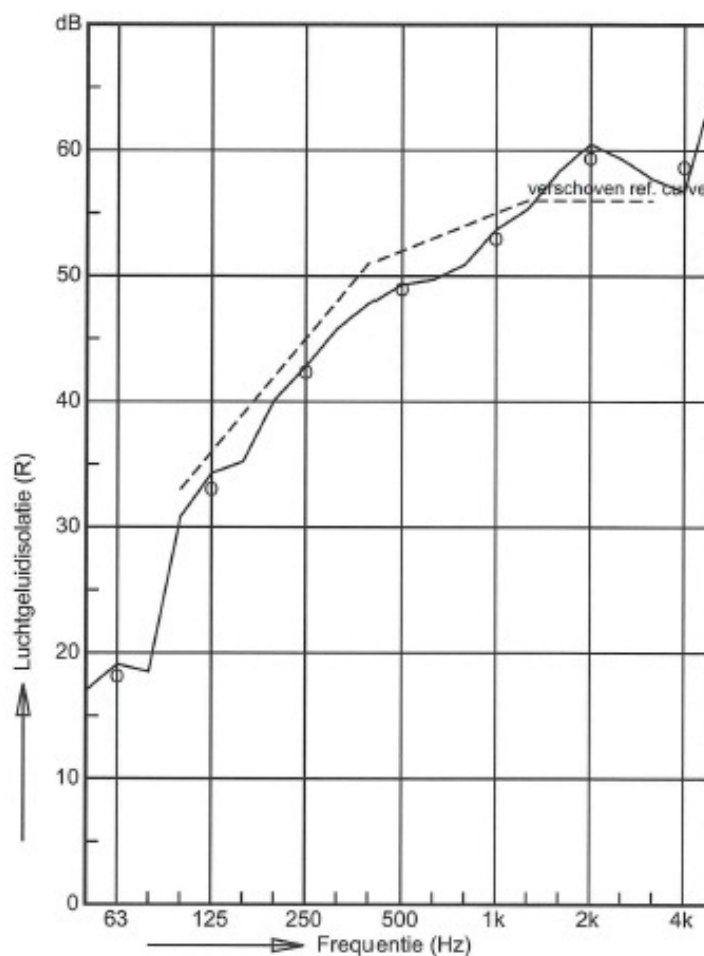


**AIRBORNE SOUND INSULATION OF WALL PARTITION**  
**Laboratory measurements in accordance with NEN-EN-ISO 10140-1 Annex A**

Client : Espero B.V. Product : Sonico 100-52  
 Project number : 054.01117/01.23 Test room : TNO transmission rooms 1-2  
 Installed by : Espero B.V. Test date : 2011-06-23  
 Description of specimen : Sonico 100-52 mobile wall, 105 mm thick,  
 12 mm chipboard, with 8 kg/m<sup>2</sup> vibration damping, cavity filled with glass wool,  
 absorption material and additional rubber joints applied to locking strips.

Mass : 38 kg/m<sup>2</sup> Source room volume : 109 m<sup>3</sup>  
 Surface area : 10 m<sup>2</sup> Receiving room volume : 107 m<sup>3</sup>

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	17.0	
63	19.1	18.1
80	18.5	
100	30.8	
125	34.3	33.0
160	35.2	
200	40.1	
250	42.8	42.3
315	45.8	
400	47.8	
500	49.3	48.9
630	49.7	
800	50.9	
1000	53.7	52.9
1250	55.3	
1600	58.3	
2000	60.5	59.3
2500	59.3	
3150	57.7	
4000	56.7	58.6
5000	65.7	



<b>Rated in accordance with NEN-EN-ISO 717-1</b>					
$R_w (C;C_{tr}) = 52 (-2;-6) \text{ dB}$	$C_{50-3150} = -5 \text{ dB}$	$C_{50-5000} = -4 \text{ dB}$	$C_{100-5000} = -1 \text{ dB}$	$C_{tr,50-3150} = -16 \text{ dB}$	$C_{tr,100-5000} = -6 \text{ dB}$