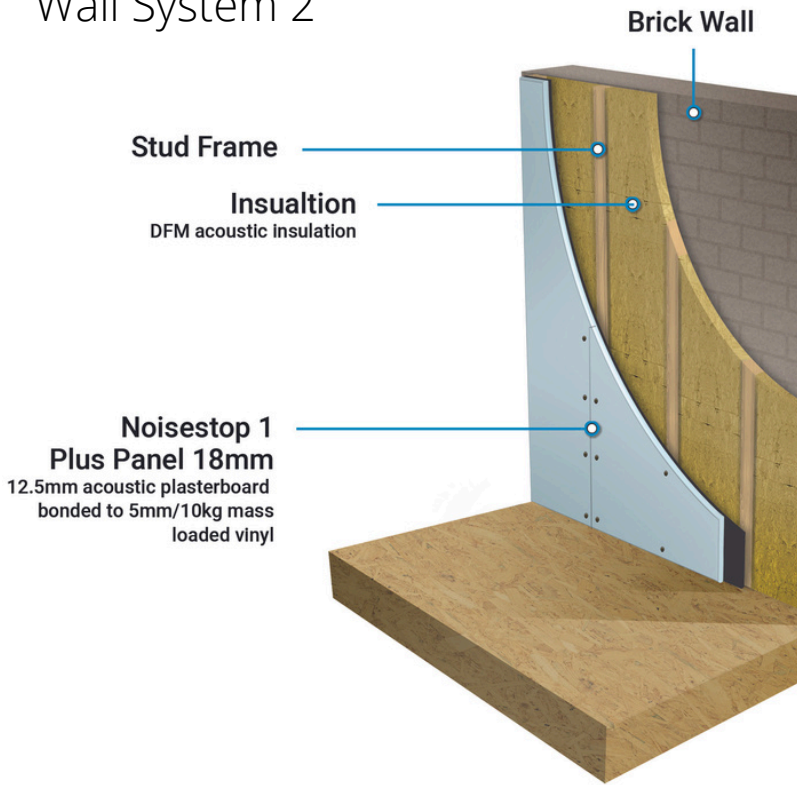


# Sound Insulation Test

## Wall System 2



Mass air resonant frequency = 42Hz  
Panel size = 2.7m x 4.0m  
Partition surface area mass = 152kg/m<sup>2</sup>

## System Description

- The system is applied to a 100mm single-skin brick wall
- Stud frame attached to the wall, studs at 600mm centre
- 25mm/60kg Acoustic insulation
- 18mm Noisestop 1Plus Panel (incorporated 12.5 acoustic p/b and 10kg mass-loaded vinyl)
- Acoustic sealant to the edges and perimeter of the boards

## Sound Insulation

<b>Untreated 100mm single skin brick wall</b>	<b>DnT,w 38dB</b>
<b>Wall System 2 applied</b>	<b>DnT,w 54dB</b>
<b>Improvement when solution is applied</b>	<b>DnT,w 16dB</b>

freq.(Hz)	R(dB)	R(dB)
50	36	
63	34	31
80	28	
100	32	
125	40	36
160	45	
200	43	
250	42	43
315	44	
400	47	
500	50	49
630	52	
800	55	
1000	57	57
1250	60	
1600	62	
2000	64	64
2500	66	
3150	67	
4000	69	70
5000	86	

