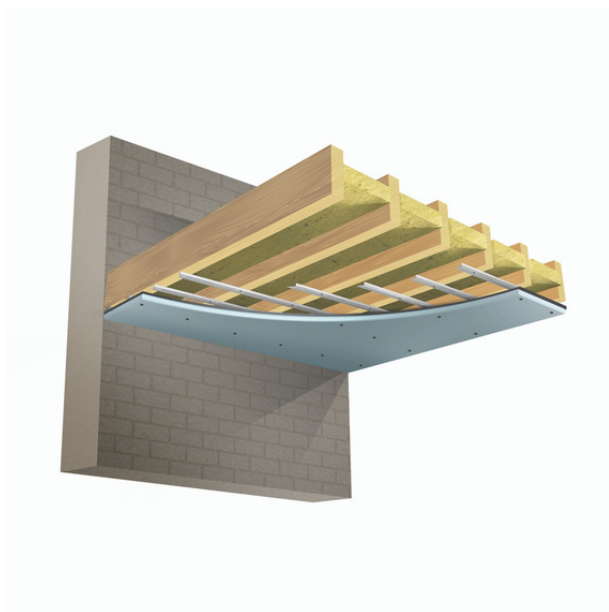


# Sound Insulation Test

## Ceiling System 2

www.noisestopsystems.co.uk  
info@noisestopsystems.co.uk  
01234 339163



Mass air resonant frequency = 31Hz

Panel size = 2.7m x 4.0m

Partition surface area mass = 57.8kg/m<sup>2</sup>

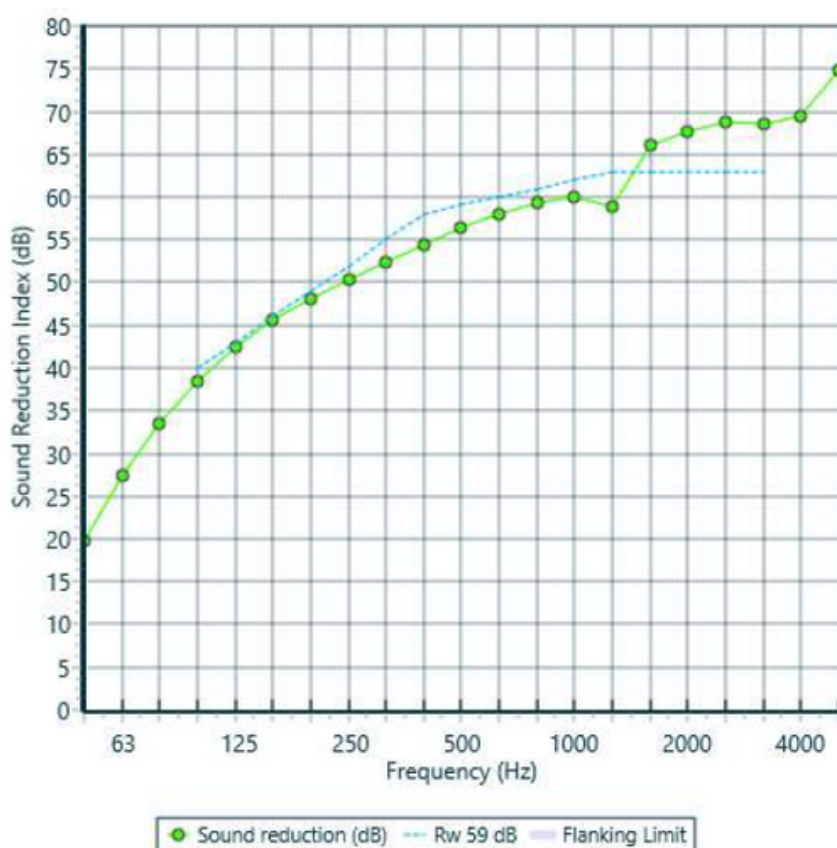
### System Description

- Ceiling System 2 (comprises)
- 22mm chipboard flooring
- timber joists at 400mm centres 50mm x 200mm
- 100mm/60kg acoustic insulation
- Soundbreaker bars fixed @ 400m centres
- Noisestop 1+ Panel (comprises 10kg mass loaded vinyl and 12.5mm acoustic plasterboard)
- Acoustic sealant to the edges and perimeter of the boards

### Airborne noise

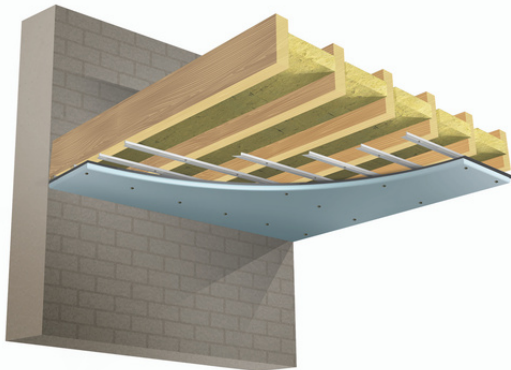
Rw 59 dB

freq.(Hz)	R(dB)	R(dB)
50	20	
63	27	24
80	34	
100	39	
125	42	41
160	46	
200	48	
250	50	50
315	52	
400	54	
500	56	56
630	58	
800	59	
1000	60	59
1250	59	
1600	66	
2000	68	67
2500	69	
3150	68	
4000	70	70
5000	75	



# Sound Insulation Test

## Ceiling System 2



Mass air resonant frequency = 31Hz  
  
 Panel size = 2.7m x 4.0m  
  
 Partition surface area mass = 57.8kg/m2

### System Description

- Ceiling System 2 (comprises)
- 22mm chipboard flooring
- timber joists at 400mm centres 50mm x 200mm
- 100mm/60kg acoustic insulation
- Soundbreaker bars fixed @ 400m centres
- Noisestop 1+ Panel (comprises 10kg mass loaded vinyl and 12.5mm acoustic plasterboard)
- Acoustic sealant to the edges and perimeter of the boards
- 

### Impact noise

Ln,w 57 dB

freq.(Hz)	Ln(dB)	Ln(dB)
50	71	
63	65	72
80	63	
100	61	
125	63	67
160	60	
200	56	
250	55	61
315	57	
400	59	
500	57	63
630	58	
800	58	
1000	53	61
1250	54	
1600	52	
2000	46	53
2500	41	
3150	35	
4000	31	36
5000	14	

