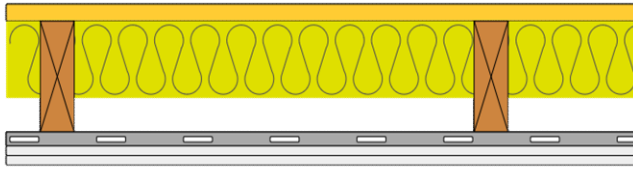


Sound Insulation Prediction (v9.0.22)



Program copyright Marshall Day Acoustics 2017
 Margin of error is generally within $R_w \pm 3$ dB
 Noisestop Systems - Key No. 6502
 Job Name: Part E Ceiling Kit Airborne est
 Job No.: Initials:
 Date:28/02/2022
 File Name:

Notes:



R_w 57 dB
 C -1 dB
 Ctr -6 dB

Mass-air-mass resonant frequency = 42 Hz

Panel Size = 2.7 m x 4.0 m

Partition surface mass = 42.8 kg/m²

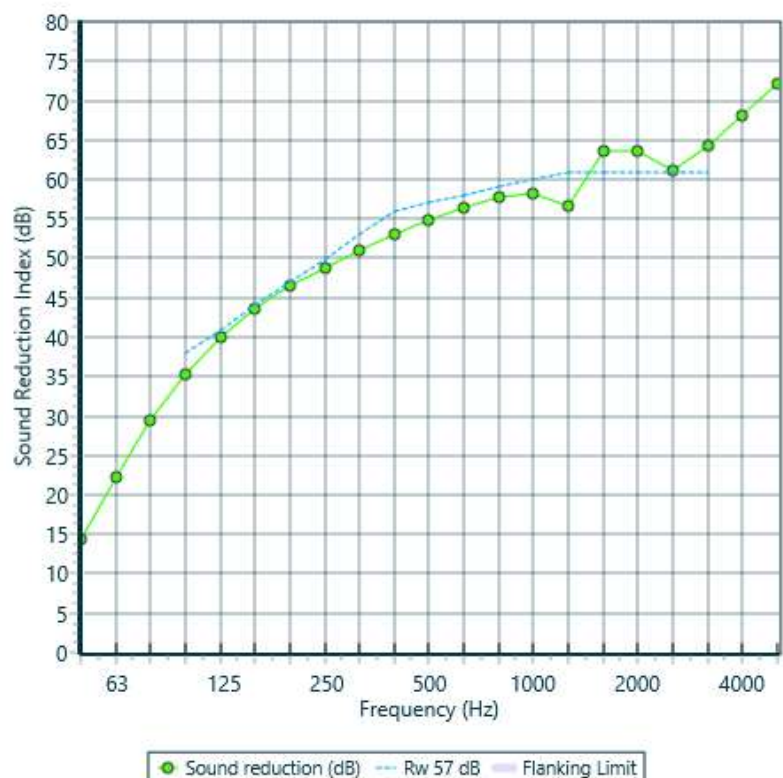
System description

Panel 1 : 1 x 22 mm Flooring Particle Board (ρ :710 kg/m³,E:3.4GPa, η :0.03, ps:15.6 kg/m², fc:1344 Hz)

Frame: Solid Joist with resilient rail (1.4E2 mm x 47 mm), Stud spacing 600 mm ; Cavity Width 162 mm , 1 x Rockwool (60kg/m³) Thickness 100 mm ...

Panel 2 : 2 x 12.5 mm Gyproc SoundBloc 12.5mm (ρ :848 kg/m³,E:3.8GPa, η :0.01, ps:21.2 kg/m², fc:3482 Hz)

freq.(Hz)	R(dB)	R(dB)
50	14	
63	22	18
80	30	
100	35	
125	40	38
160	44	
200	46	
250	49	48
315	51	
400	53	
500	55	55
630	56	
800	58	
1000	58	58
1250	57	
1600	63	
2000	64	63
2500	61	
3150	64	
4000	68	67
5000	72	



● Sound reduction (dB) --- R_w 57 dB Flanking Limit