

# Sound Insulation Prediction (v9.0.22)



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Margin of error is generally within  $R_w \pm 3$  dB

- Key No. 6502

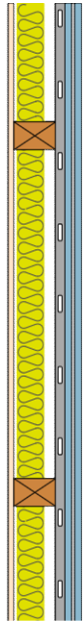
Job Name: Stud Wall Kit 75mm

Job No.:

Initials: Jeremy Fisher

Date: 14/08/2020

File Name:



Notes:

**$R_w$  55 dB**  
 C -5 dB  
 Ctr -12 dB

Mass-air-mass resonant frequency = 71 Hz

Panel Size = 2.7 m x 4.0 m

Partition surface mass = 45.1 kg/m<sup>2</sup>

## System description

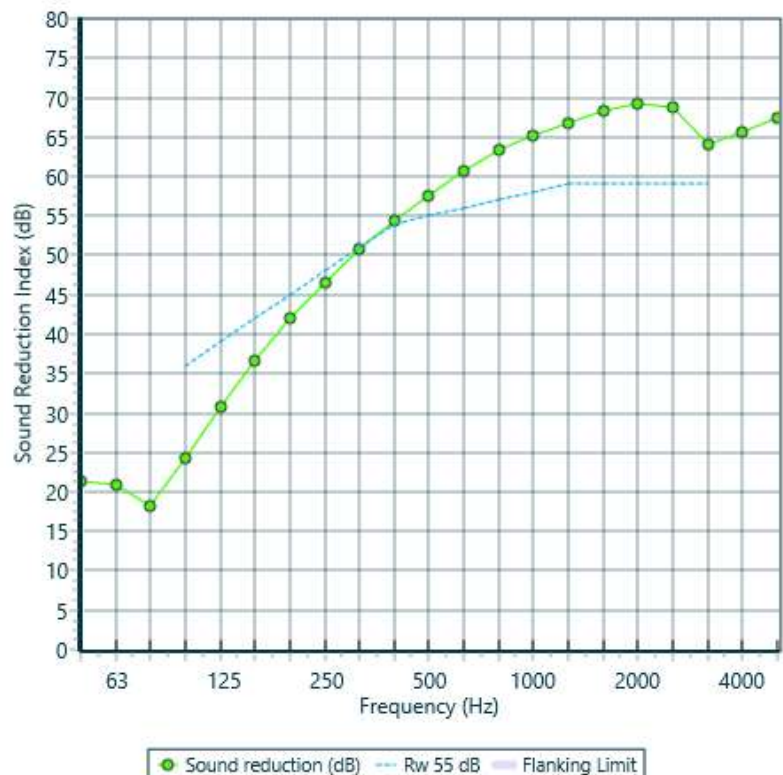
Panel 1 : 1 x 10 mm Plasterboard

Frame: Timber stud + Resilient rail/bar (75 mm x 47 mm), Stud spacing 600 mm; Cavity Width 87 mm, 1 x Rockwool (60kg/m<sup>3</sup>) Thickness 50 mm

Panel 2 : 1 x 12.5 mm Siniat GTEC dB Board 12.5mm  
 + 1 x 12.5 mm Siniat GTEC dB Board 12.5mm

+ 1 x 5 mm ass loaded vinyl

freq.(Hz)	R(dB)	R(dB)
50	21	
63	21	20
80	18	
100	24	
125	31	28
160	37	
200	42	
250	47	45
315	51	
400	54	
500	58	57
630	61	
800	63	
1000	65	65
1250	67	
1600	68	
2000	69	69
2500	69	
3150	64	
4000	66	66
5000	67	



● Sound reduction (dB)    - - -  $R_w$  55 dB    Flanking Limit