

Sound Insulation Prediction (v8.0.12)

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PechoM

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

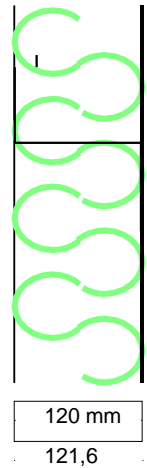
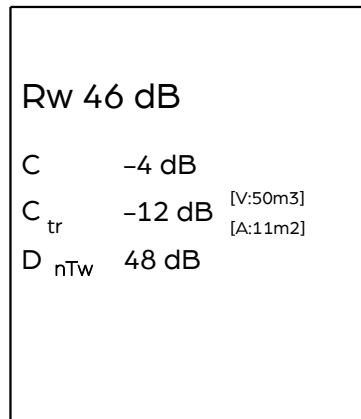
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System description:

Panel 1 : 1 x 0,6 mm Steel (ρ :7800 kg/m³, E :2,1E02GPa, η :0,01, ρ_s :7,8 kg/m², f_c :1,25E4 Hz)

Cavity: Z Girt: Stud spacing 600 mm , Infill PM 2053 (65kg/m³) Thickness 120 mm (ρ :70 kg/m³, R_f :25000 Pa.s/m²)

Panel 2 + 1 x 1,5 mm Steel (ρ :7800 kg/m³, E :2,1E02GPa, η :0,01, ρ_s :11,7 kg/m², f_c :8333 Hz)



frequency (Hz)	R(dB)	R(dB)
50	12	
63	12	12
80	11	
100	12	
125	18	15
160	24	
200	31	
250	36	34
315	41	
400	45	
500	49	48
630	52	
800	54	
1000	56	56
1250	58	
1600	60	
2000	62	62
2500	64	
3150	66	
4000	68	67
5000	69	

