

Sound Insulation Prediction (v8.0.12)

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PechoM

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

Date: 27 Eki 17

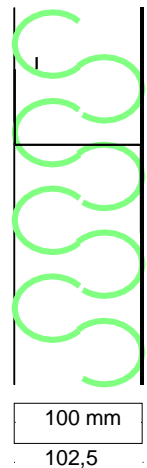
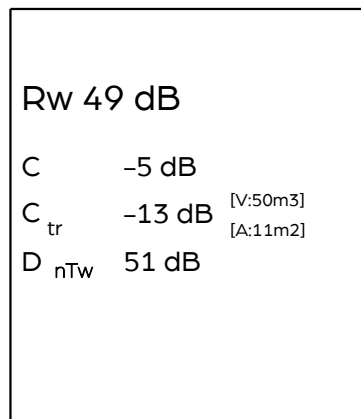
File Name:insul

System description:

Panel 1 : 1 x 1,0 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 2023 (70kg/m³) Thickness 100 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	15	
63	15	14
80	13	
100	17	
125	24	21
160	31	
200	36	
250	41	40
315	45	
400	48	
500	51	51
630	54	
800	56	
1000	58	57
1250	60	
1600	62	
2000	64	63
2500	65	
3150	67	
4000	68	68
5000	69	

