

Sound Insulation Prediction (v9.0.24)

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

- Key No. 2642

Job Name:

Job No.:

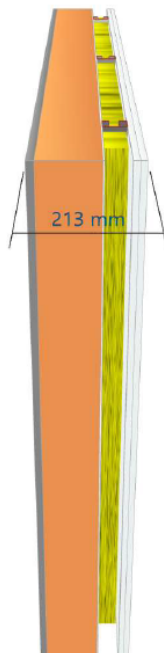
Initials:SBA

Date:14.03.2025

File Name:Multi_wall_3mm_knauf623_2xGKB.ixl



Notes:



R_w 57 dB

C -1 dB

Ctr -4 dB

Mass-air-mass resonant frequency = 58 Hz

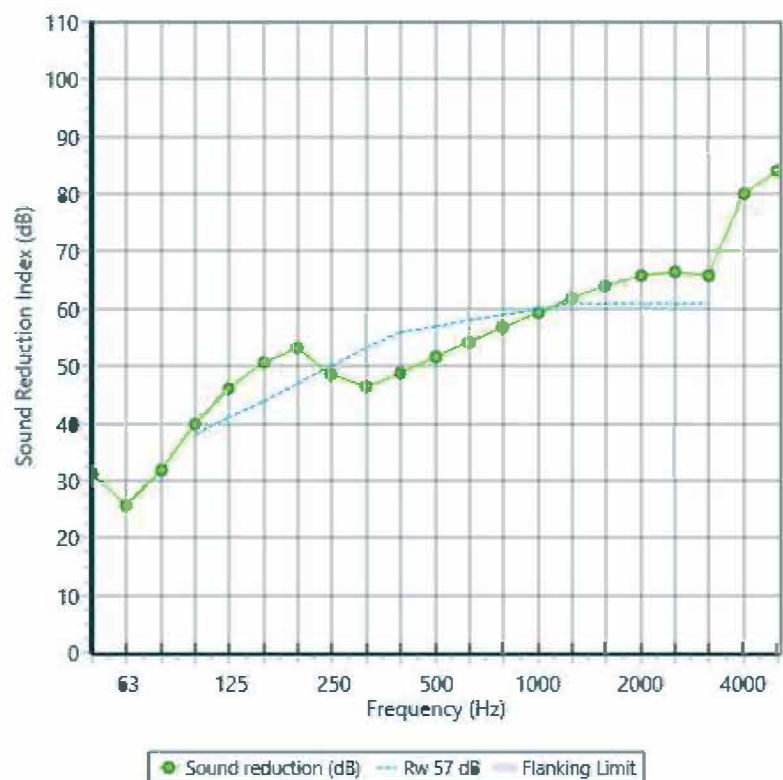
Panel Size = 2,7 m x 4,0 m

Partition surface mass = 187 kg/m²

System description

- 1 x 15 mm Sand/Cement render (plaster)
- + 1 x 120 mm Porotherm PWS 1200
- + 1 x 3 mm DAMTEC multi
- + 1 x Frame: metal studs Stud spacing 600 mm ; Cavity Width 50 mm; mineral wool (60kg/m³) 50 mm
- + 2x12,5mm Knauf gypsum board GKB (12,5 mm)

freq.(Hz)	R(dB)	R(dB)
50	31	
63	26	29
80	32	
100	40	
125	46	43
160	51	
200	53	
250	48	48
315	46	
400	49	
500	52	51
630	54	
800	57	
1000	59	59
1250	62	
1600	64	
2000	66	65
2500	66	
3150	66	
4000	80	70
5000	84	



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