

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.:

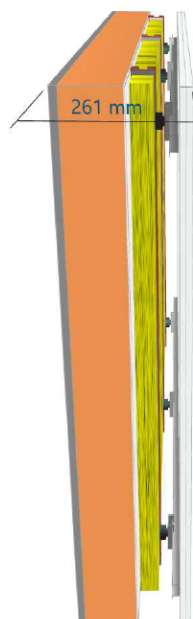
Initials:SBA

Date:14.03.2025

File Name:Multi_wall_3mm_knauf623_acou_2xGKB.ixl



Notes:



R_w 63 dB

C -1 dB

Ctr -4 dB

Mass-air-mass resonant frequency = 41 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 **with acoustic hangers** (40 mm x 38 mm) Stud spacing 600 mm ; Cavity Width 98 mm; mineral wool (60kg/m³) 50 mm
- + 2x12,5mm Knauf gypsum board GKB (12,5 mm)

freq.(Hz)	R(dB)	R(dB)
50	27	
63	36	32
80	43	
100	49	
125	53	52
160	57	
200	59	
250	54	54
315	52	
400	54	
500	57	56
630	60	
800	62	
1000	65	64
1250	67	
1600	69	
2000	71	71
2500	72	
3150	71	
4000	90	76
5000	94	

