

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

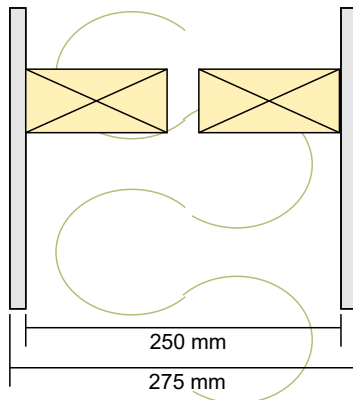
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 3A.ixl



R_w 64 dB

C -2 dB

C_{tr} -9 dB

System description

Panel 1 Outer layer: 1 x 12.5 mm Gypsum Rigidur H 12.5mm- ($m=15.0$ kg/m², $f_c=4009$ Hz, Damping=0.01) Profile

Cavity: Double timber stud @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 200 mm

Panel 2 Inner layer: 1 x 12.5 mm Gypsum Rigidur H 12.5mm- ($m=15.0$ kg/m², $f_c=4009$ Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =37 Hz

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	23	
63	28	27
80	33	
100	38	
125	42	41
160	48	
200	53	
250	53	54
315	56	
400	60	
500	64	63
630	67	
800	71	
1000	74	73
1250	77	
1600	80	
2000	82	82
2500	84	
3150	81	
4000	71	75
5000	77	

