

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

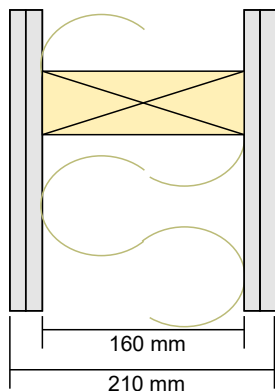
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 2B.ixl



R_w 56 dB

C -2 dB

C_{tr} -5 dB

System description

Panel 1 Outer layer: 2 x 12.5 mm Gypsum Rigidur H 12.5mm- ($m=30.0$ kg/m², $f_c=4009$ Hz, Damping=0.01) Profile

Cavity: Timber stud @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 160 mm

Panel 2 Inner layer: 2 x 12.5 mm Gypsum Rigidur H 12.5mm- ($m=30.0$ kg/m², $f_c=4009$ Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =33 Hz

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	30	
63	33	32
80	36	
100	39	
125	41	41
160	43	
200	45	
250	47	46
315	48	
400	50	
500	51	51
630	53	
800	55	
1000	56	56
1250	58	
1600	59	
2000	60	60
2500	61	
3150	59	
4000	53	55
5000	56	

