

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

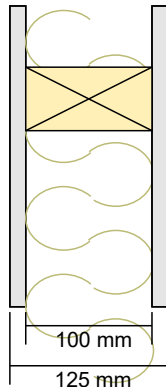
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 1A.ixl



R_w 49 dB

C -2 dB

C_{tr} -6 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: Timber stud @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 100 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 =59 Hz

frequency (Hz)	TL(dB)	TL(dB)
50	16	
63	17	17
80	22	
100	27	
125	31	30
160	35	
200	38	
250	40	39
315	42	
400	44	
500	45	45
630	47	
800	49	
1000	50	50
1250	52	
1600	53	
2000	54	54
2500	55	
3150	53	
4000	46	49
5000	49	

Panel Size 2.7x4 m

