

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

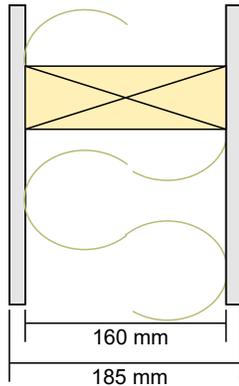
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 2A.ixl



R_w 49 dB

C -1 dB

C_{tr} -5 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 160 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 =46 Hz

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	17	
63	21	20
80	26	
100	30	
125	33	32
160	36	
200	38	
250	40	40
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	

