Sound Insulation Prediction (v7.0.6)

- Key No. 2503

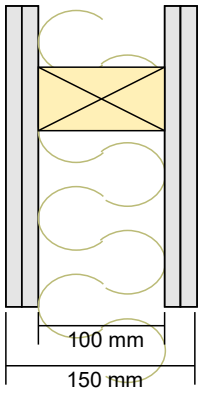
Margin of error is generally within Rw +/- 3 dB

Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20 Initials: PD

File Name: Wall Type 1B.ixl



Rw	55 dB
C	-1 dB
C_{tr}	-4 dB

System description

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

Cavity: Timber stud @ 600 mm , Infill Mineral Wool (22Kg/m3) Thickness 100 mm
Panel 2 Inner layer: 2 x 12.5 mm Gypsum Rigidur H 12.5mm- (m=30.0 kg/m2, fc=4009 Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =41 Hz

frequency (Hz)	TL(dB)	TL(dB)
50	26	
63	30	29
80	34	
100	37	
125	40	39
160	43	
200	45	
250	46	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	

Panel Size 2.7x4 m