

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

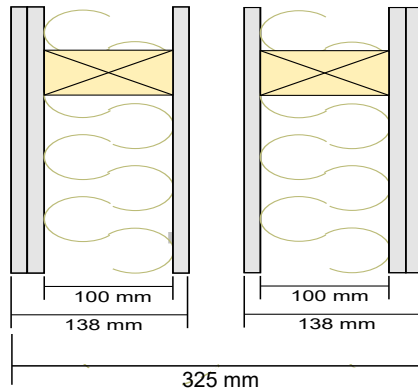
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 4.ixl



R_w 81 dB

C -7 dB

C_{tr} -15 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 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

Cavity: None @ 600 mm , Thickness 50 mm

Panel 3 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

Cavity: Timber stud @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 100 mm

Panel 4 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 =32 Hz , 99

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	35	
63	42	39
80	45	
100	46	
125	56	50
160	63	
200	70	
250	76	74
315	83	
400	90	
500	96	93
630	102	
800	108	
1000	113	111
1250	118	
1600	123	
2000	127	126
2500	139	
3150	139	
4000	133	136
5000	139	

