

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

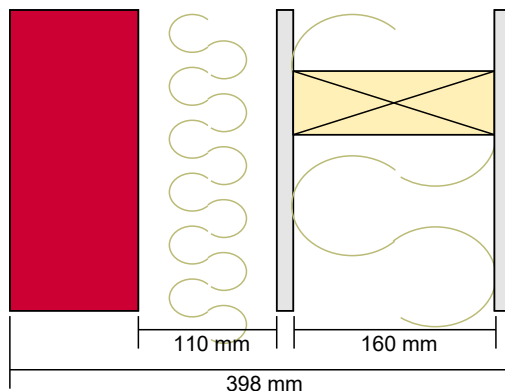
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 1A.ixl



R_w	90 dB
C	-4 dB
C_{tr}	-12 dB

System description

Panel 1 Outer layer: 1 x 102.5 mm Brick- ($m=164.0$ kg/m², $f_c=268$ Hz, Damping=0.00) Profile

Cavity: None @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 60 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: Timber stud @ 600 mm , Infill Sound absorber Thickness 160 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

Mass-air-mass resonant frequency =29 Hz , 67

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	35	
63	38	38
80	52	
100	59	
125	66	63
160	72	
200	78	
250	81	81
315	87	
400	93	
500	98	96
630	102	
800	107	
1000	111	110
1250	115	
1600	120	
2000	124	123
2500	136	
3150	137	
4000	134	137
5000	140	

