

Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

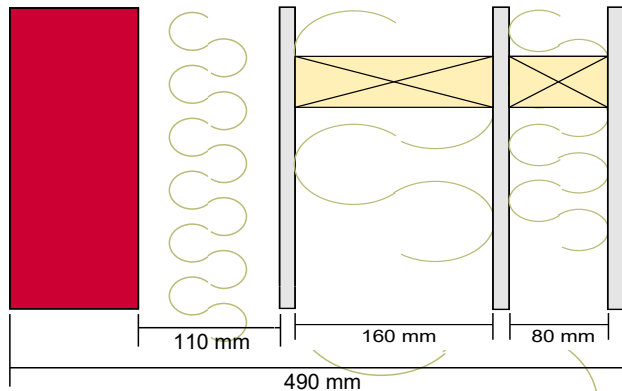
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 1C.ixl



R_w 96 dB

C -4 dB

C_{tr} -11 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

Cavity: None @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 80 mm

Panel 4 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 =20 Hz , 59

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	41	
63	46	44
80	59	
100	66	
125	73	70
160	79	
200	83	
250	87	86
315	91	
400	96	
500	101	100
630	106	
800	110	
1000	115	113
1250	119	
1600	123	
2000	128	127
2500	141	
3150	143	
4000	140	142
5000	146	

