Sound Insulation Prediction (v7.0.6)

- Key No. 2503

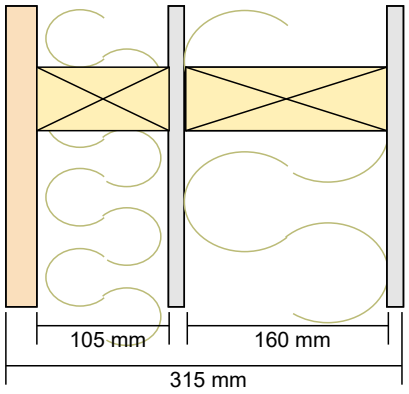
Margin of error is generally within Rw +/- 3 dB

Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20 Initials: PD

File Name: Wall Type 3A.ixl



Rw	50 dB
C	-2 dB
C_{tr}	-5 dB

System description

Panel 1 Outer layer: 1 x 25.0 mm Pine- (m=12.3 kg/m2, fc=816 Hz, Damping=0.04) Profile

Cavity: Timber stud @ 600 mm , Infill Sound absorber Thickness 90 mm
Panel 2 Inner layer: 1 x 12.5 mm Gypsum Rigidur H 12.5mm- (m=15.0 kg/m2, fc=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, fc=4009 Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =43 Hz , 78

frequency (Hz)	TL(dB)	TL(dB)
50	9	
63	17	13
80	23	
100	31	
125	34	33
160	37	
200	39	
250	41	41
315	43	
400	45	
500	46	46
630	47	
800	48	
1000	49	49
1250	52	
1600	54	
2000	57	55
2500	56	
3150	56	
4000	56	57
5000	58	

Panel Size 2.7x4 m