

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

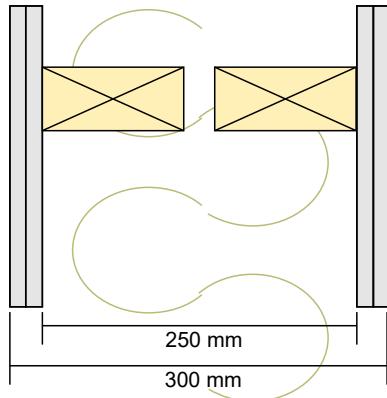
Job No.: 4852

Note: model result adjusted to reflect expected rating

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 3B.ixl



R_w	71 dB
C	-2 dB
C_{tr}	-9 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: Double timber stud @ 600 mm , Infill Mineral Wool (22Kg/m³) Thickness 200 mm

Panel 2 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 =31 Hz

frequency (Hz)	TL(dB)	TL(dB)
50	31	
63	35	34
80	40	
100	45	
125	49	48
160	55	
200	60	
250	60	61
315	64	
400	67	
500	71	70
630	74	
800	78	
1000	81	80
1250	84	
1600	87	
2000	90	88
2500	90	
3150	84	
4000	79	82
5000	85	

Panel Size 2.7x4 m

