

# Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

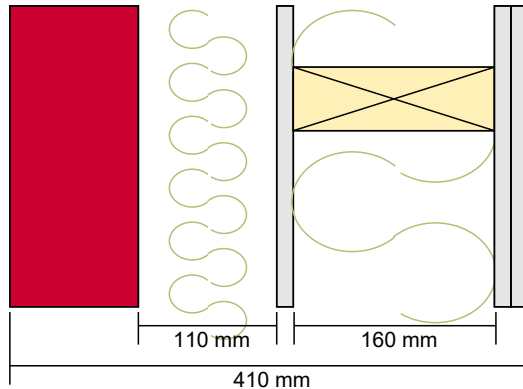
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 1B.ixl



$R_w$  95 dB

C -4 dB

$C_{tr}$  -12 dB

## System description

Panel 1 Outer layer: 1 x 102.5 mm Brick- ( $m=164.0$  kg/m<sup>2</sup>,  $f_c=268$  Hz, Damping=0.00) Profile

Cavity: None @ 600 mm , Infill Mineral Wool (22Kg/m<sup>3</sup>) Thickness 60 mm

Panel 2 Inner layer: 1 x 12.5 mm Gypsum Rigidur H 12.5mm- ( $m=15.0$  kg/m<sup>2</sup>,  $f_c=4009$  Hz, Damping=0.01) Profile

Cavity: Timber stud @ 600 mm , Infill Sound absorber Thickness 160 mm

Panel 3 Inner layer: 2 x 12.5 mm Gypsum Rigidur H 12.5mm- ( $m=30.0$  kg/m<sup>2</sup>,  $f_c=4009$  Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =22 Hz , 64

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	40	
63	44	43
80	57	
100	64	
125	71	68
160	77	
200	82	
250	86	85
315	91	
400	96	
500	101	99
630	106	
800	110	
1000	115	113
1250	119	
1600	123	
2000	128	127
2500	141	
3150	143	
4000	140	142
5000	146	

