

# Sound Insulation Prediction (v7.0.6)

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- Key No. 2503

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

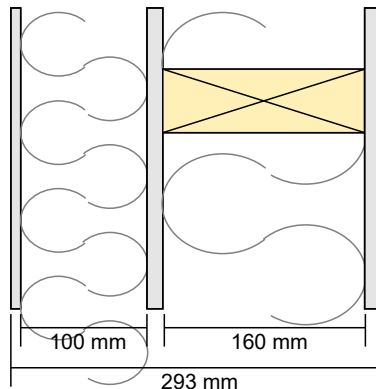
Job Name Streif Walls, Acoustic Modelling

Job No.: 4852

Date: 18 Aug 20

Initials: PD

File Name: Wall Type 2A.ixl



$R_w$  42 dB

C -4 dB

$C_{tr}$  -6 dB

## System description

Panel 1 Outer layer: 1 x 8.0 mm Sto Rendering- ( $m=0.0$  kg/m<sup>2</sup>,  $f_c=181$  Hz, Damping=0.01) Profile

Cavity: None @ 600 mm , Infill Rockwool (60kg/m<sup>3</sup>) Thickness 100 mm

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

Cavity: Timber stud @ 600 mm , Infill Rockwool (60kg/m<sup>3</sup>) Thickness 160 mm

Panel 3 Inner layer: 1 x 12.5 mm Gypsum Rigidur H- ( $m=15.0$  kg/m<sup>2</sup>,  $f_c=4009$  Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =54 Hz , 2106

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	8	
63	14	12
80	24	
100	29	
125	31	30
160	32	
200	32	
250	35	34
315	38	
400	41	
500	43	33
630	28	
800	35	
1000	40	38
1250	46	
1600	51	
2000	55	54
2500	61	
3150	61	
4000	54	58
5000	62	

