Sound Insulation Prediction (v6.4)

Hewlett-Packard - Key No. 0180

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

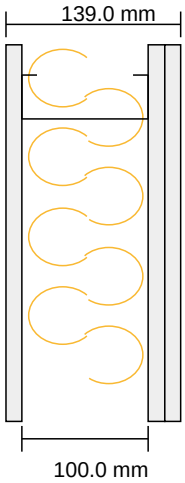
Job Name:

Notes:

Job No.:EBOSS Page No.:

Date: 24 Mar 11 Initials:STEEL WALL

File Name: insul



STC 54

OITC 42

System description

Panel 1 Outer layer: 1 x 13.0 mm Gib Noiseline- (m=12.5 kg/m2, fc=2559 Hz, damping=0.01)

Cavity: @ 450 mm Steel stud @ 600 mm , Infill Bradford Gold R2.6 Wall Thickness 90 mm
Panel 2 Inner layer: 2 x 13.0 mm Gib Noiseline- (m=25.0 kg/m2, fc=2559 Hz, damping=0.01)

Mass-air-mass resonant frequency =66 Hz

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	19	
63	17	19
80	25	
100	30	
125	34	33
160	39	
200	44	
250	47	46
315	51	
400	53	
500	55	55
630	56	
800	58	
1000	59	59
1250	60	
1600	60	
2000	57	54
2500	50	
3150	53	
4000	57	55
5000	60