Sound Insulation Prediction (v6.4)

Hewlett-Packard - Key No. 0180

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

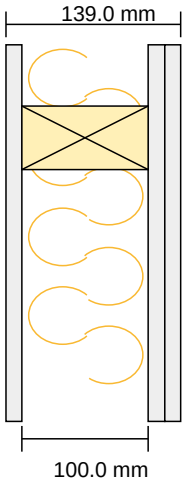
Job Name:

Notes:

Job No.:EBOSS Page No.:

Date: 24 Mar 11 Initials:TIMBER WALL

File Name: insul



STC 46

OITC 39

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 Timber 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	24	
100	29	
125	32	32
160	36	
200	38	
250	40	40
315	42	
400	44	
500	45	45
630	47	
800	48	
1000	49	49
1250	50	
1600	50	
2000	48	45
2500	42	
3150	44	
4000	48	47
5000	51