Sound Insulation Prediction (v6.4.9)

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- Key No. 1575

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

Job Name:Oxford Road, Manches

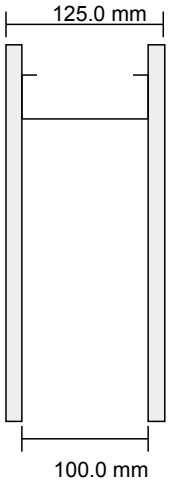
Job No.:Ladbrok Page No.:

Date: 18 Apr 13 Initials:AEF

File Name: 12.5mm gyproc fireline to both sides empty cavity.ins

Notes:

Steel stud Wall: 1 x 12.5 mm Gyproc Fireline + Steel stud + 1 x 12.5 mm Gyproc Fireline. DnTw 40dB



Rw	38 dB
C	-1 dB
C_{tr}	-6 dB

System description

Panel 1 Outer layer: 1 x 12.5 mm Gyproc Fireline 12.5mm- (m=9.8 kg/m2, fc=2939 Hz, damping=0.01)

Cavity: Steel stud @ 600 mm
Panel 2 Inner layer: 1 x 12.5 mm Gyproc Fireline 12.5mm- (m=9.8 kg/m2, fc=2939 Hz, damping=0.01)

Mass-air-mass resonant frequency =86 Hz

Panel Size 2.7x4 m

frequency (Hz)	TL(dB)	TL(dB)
50	15	
63	15	15
80	14	
100	20	
125	19	20
160	22	
200	25	
250	27	27
315	30	
400	34	
500	38	37
630	42	
800	46	
1000	50	48
1250	51	
1600	53	
2000	46	42
2500	37	
3150	43	
4000	49	46
5000	53	

