Sound Insulation Prediction (v9.0.20)

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Margin of error is generally within Rw ±3 dB
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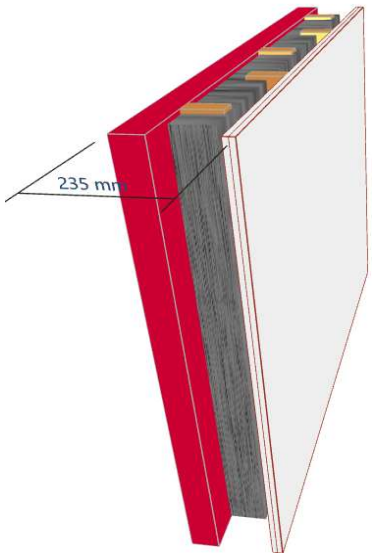
Date:20/08/2024
File Name:

Notes:Partiton wall between 172 Tarring Road and proposed HMO



Rw	51 dB
C	0 dB
Ctr	-1 dB

Mass-air-mass resonant frequency = =32 Hz

Panel Size = 2.7 m x 4.0 m

Partition surface mass = 137 kg/m²

System description

Panel 1 : 1 x 70 mm Brick

Frame: Staggered Stud (90 mm x 45 mm), Stud spacing 600 mm ; Cavity Width 140 mm , 1 x Rockwool (40kg/m3) Thickness 100 mm
Panel 2 : 2 x 12.5 mm Gyproc SoundBloc 12.5mm

freq.(Hz)	R(dB)	R(dB)
50	33	
63	40	37
80	45	
100	48	
125	51	51
160	54	
200	55	
250	57	56
315	57	
400	45	
500	44	45
630	46	
800	49	
1000	51	51
1250	53	
1600	55	
2000	56	56
2500	57	
3150	72	
4000	76	75
5000	80	

