

Sound Insulation Prediction (v8.0.1)

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- Key No. 2016

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

Job Name:

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Notes:

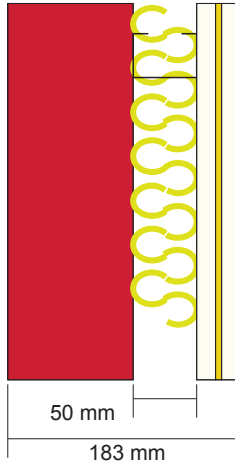
Date: 1 feb 18

Initials:Proprietario

File Name: Controparete Flat Barrier Aderenza.ixl



ACOUSTICS & CO.



R_w	57 dB
C	0 dB
C_{tr}	-2 dB
D_{nTw}	59 dB <small>[V:50m3] [A:11m2]</small>

System description

Panel 1: 1 x 100,0 mm Mattone (? :1600 kg/m³, E:8,9GPa, ? :0,02)

Cavity: Steel stud (0.55mm) , Stud spacing 600 mm , Infill Lana de Roca (60kg) Thickness 50 mm (? :60 kg/m³, Rf:22000 Pa.s/m²)

Panel 2+ 1 x 15,0 mm mm Plasterboard (? :710 kg/m³, E:2GPa, ? :0,01) + 1 x 5,0 mm Flat Barrier 10 (? :2000 kg/m³, E:0,001GPa, ? :0,30)
+ 1 x 13,0 mm mm Plasterboard (? :710 kg/m³, E:2GPa, ? :0,01)

Mass-air-mass resonant frequency =45 Hz

Panel Size 2,7x4 m

frequency (Hz)	R(dB)	R(dB)
50	22	
63	31	26
80	40	
100	47	
125	52	50
160	56	
200	59	
250	58	51
315	46	
400	49	
500	51	51
630	54	
800	57	
1000	59	59
1250	62	
1600	64	
2000	66	66
2500	69	
3150	70	
4000	90	75
5000	94	

