

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:

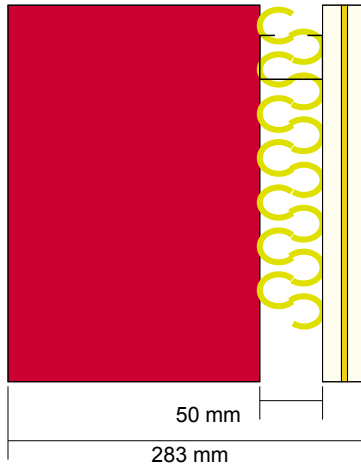
Date: 1 feb 18

Initials: Proprietario

File Name: Controparete Flat Barrier Aderenza.ixl



ACOUSTICS & CO.



R_w	66 dB
C	-1 dB
C_{tr}	-5 dB
D_{nTw}	68 dB <small>[V:50m3] [A:11m2]</small>

System description

Panel 1: 1 x 200,0 mm Mattone (? :1600 kg/m³, E:8,9GPa, ? :0,03)

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 =43 Hz

Panel Size 2,7x4 m

frequency (Hz)	R(dB)	R(dB)
50	27	
63	38	31
80	45	
100	51	
125	53	51
160	50	
200	53	
250	55	55
315	58	
400	60	
500	63	62
630	65	
800	68	
1000	70	70
1250	73	
1600	75	
2000	78	77
2500	80	
3150	81	
4000	101	86
5000	105	

