

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:

Job No.:

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Notes:

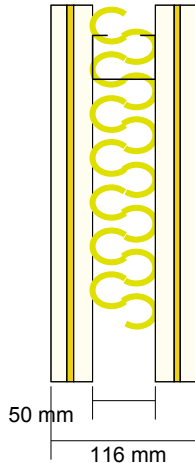
Date: 1 feb 18

Initials:Proprietario

File Name: Tramezzo Singolo Flat Barrier.ixl



ACOUSTICS & CO.



R_w	62 dB
C	-5 dB
C_{tr}	-12 dB
D_{nTw}	64 dB <small>[V:50m3] [A:11m2]</small>

System description

Panel 1: 1 x 13,0 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 15,0 mm mm Plasterboard (? :710 kg/m³,E:2GPa,?:0,01)

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 =59 Hz

Panel Size 2,7x4 m

frequency (Hz)	R(dB)	R(dB)
50	21	
63	16	19
80	22	
100	31	
125	38	35
160	44	
200	50	
250	54	53
315	57	
400	60	
500	63	62
630	65	
800	67	
1000	69	69
1250	71	
1600	73	
2000	74	74
2500	75	
3150	75	
4000	81	79
5000	85	

