

Sound Insulation Prediction (v9.0.8)

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margin of error is generally within $R_w \pm 3$ dB
- Key No. 1197
Job Name:
Job No.:
Date:16-10-2024
File Name:03 Puerta A

Initials:leonardo.ramella

Notes:



$R_w + C = 46(-3).ixl$

R_w 46 dB
C -3 dB
Ctr -9 dB

Mass-air-mass resonant frequency = 129 Hz
Panel Size = 2,7 m x 4,0 m
Partition surface mass = 16,5 kg/m²

System description

Panel 1 : 1 x 0,8 mm Acero

Frame: Steel Stud (1.0-1.6mm); Cavity Width 50 mm ,Stud spacing 600 mm , 1 x Fibra de vidrio 80 kg/m3 50 mm Thickness 50 mm

Panel 2 + 1 x 0,8 mm Acero

Porous facing:: Fibra de vidrio 100 kg/m3 50 mm Thickness 50 mm

Floor Cover: Thickness 0,02 mm

freq.(Hz)	TL(dB)	TL(dB)
50	21	
63	22	22
80	23	
100	24	
125	22	23
160	24	
200	30	
250	36	33
315	42	
400	47	
500	52	50
630	57	
800	61	
1000	64	63
1250	68	
1600	71	
2000	73	73
2500	76	
3150	78	
4000	81	80
5000	83	

