

Sound Insulation Prediction (v7.0.13)

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Knauf Insulation - Key No. 1715

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

Job Name: Just Rite

Job No.: 290514

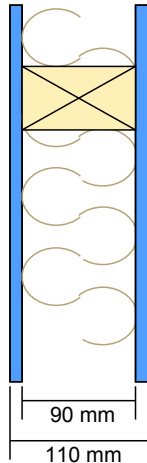
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Notes:

Date: 29 May 14

Initials:NH

File Name: Just Rite 290514.ixl



R_w 38 dB

C -2 dB

C_{tr} -8 dB

System description

Panel 1 Outer layer: 1 x 10.0 mm KNAUF 10mm MastaShield Plasterboard- ($m=6.5$ kg/m², $f_c=3508$ Hz, Damping=0.01) Profile

Cavity: Timber stud @ 600 mm , Infill Knauf Supafil Insulation 18kg/m³ Thickness 90 mm

Panel 2 Inner layer: 1 x 10.0 mm KNAUF 10mm MastaShield Plasterboard- ($m=6.5$ kg/m², $f_c=3508$ Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =94 Hz

Panel Size 2.7x4 m

frequency (Hz)	R(dB)	R(dB)
50	12	
63	12	12
80	12	
100	13	
125	16	16
160	22	
200	26	
250	30	29
315	33	
400	35	
500	37	37
630	39	
800	41	
1000	42	42
1250	43	
1600	44	
2000	43	43
2500	42	
3150	37	
4000	38	38
5000	41	

