

Sound Insulation Prediction (v7.0.13)

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- Key No. 1715

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

Job Name:

Job No.:

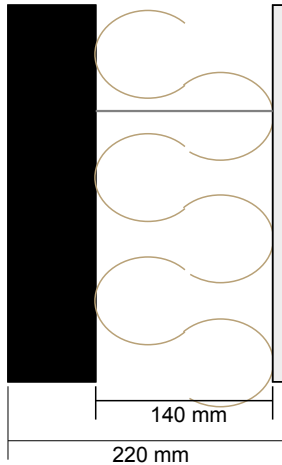
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Notes:

Date: 1 Jul 14

Initials:Nathan

File Name: JustRite 010714.ixl



| | |
|----------|-------|
| R_w | 62 dB |
| C | -2 dB |
| C_{tr} | -6 dB |

System description

Panel 1 Outer layer: 1 x 70.0 mm Brick- ($m=112.0$ kg/m², $f_c=393$ Hz, Damping=0.00) Profile

Cavity: Point connections @ 600 mm , Infill Knauf Supafil Insulation 18kg/m³ Thickness 140 mm

Panel 2 Inner layer: 1 x 10.0 mm CSR Gyprock CD plasterboard- ($m=6.6$ kg/m², $f_c=3970$ Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =54 Hz

Panel Size 2.7x4 m

| frequency (Hz) | R(dB) | R(dB) |
|----------------|-------|-------|
| 50 | 32 | |
| 63 | 31 | 33 |
| 80 | 39 | |
| 100 | 42 | |
| 125 | 47 | 45 |
| 160 | 51 | |
| 200 | 54 | |
| 250 | 55 | 55 |
| 315 | 55 | |
| 400 | 51 | |
| 500 | 54 | 54 |
| 630 | 57 | |
| 800 | 61 | |
| 1000 | 63 | 63 |
| 1250 | 66 | |
| 1600 | 66 | |
| 2000 | 69 | 68 |
| 2500 | 71 | |
| 3150 | 73 | |
| 4000 | 69 | 71 |
| 5000 | 72 | |

