Impact Sound Prediction (v7.0.10)

- Key No. 1715

Margin of error for Impact Sound Prediction is generally within Ln,w +/- 5 dB

Job Name:JustRite

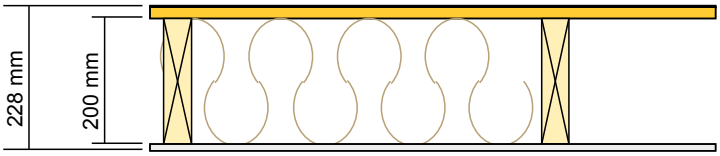
Job No.:1508201 Page No.:

Date: 15 Aug 13 Initials:NH

File Name: JustRite 2 15082013.ixl

Notes:

Cavity filled with Knauf Supafil @ 18kg/m³



Ln,w 69 dB

C_1 -1 dB

System description

Floor Cover: Custom floor covering
Panel 1 Outer layer: 1 x 18.0 mm Particle Board- (m=11.9 kg/m2, fc=1768 Hz, Damping=0.03) Profile

Joists: 45.0 mm x200.0 mm @ 600 mm (490.0 (kg/m3), Youngs Modulus =5(GPa), Damping=0.04)
Cavity: Solid joist(timber or Twinaplate), Infill Knauf Supafil Insulation 18kg/m³ Thickness 200 mm
Panel 2 Inner layer: 1 x 10.0 mm Gypsum plasterboard- (m=6.9 kg/m2, fc=3798 Hz, Damping=0.01) Profile

Mass-air-mass resonant frequency =64 Hz

frequency (Hz)	Ln(dB)	Ln(dB)
50	81	
63	83	87
80	82	
100	78	
125	73	80
160	70	
200	69	
250	69	78
315	77	
400	73	
500	72	77
630	71	
800	69	
1000	64	71
1250	59	
1600	58	
2000	50	59
2500	49	
3150	53	
4000	55	58
5000	47	

Panel Size 2.4x2.4 m