

Data Sheet 9

Laboratory Measurement of Sound Reduction Index to BS EN ISO 10140-2:2021

Test Number:	9	Test Room:	Source	Receiving
Client:	AMC Mecanocauchó	Air Temperature:	16.7 °C	16.5 °C
Test Date:	24/05/2024	Air Humidity:	67 %	67 %
Sample Height:	4.29 m	Volume:	67.2 m³	52 m³
Sample Width:	4.30 m	Air Pressure:	1013 mbar	
Sample Weight:	37.1 kg/m²			
Product Identification:	1x18mm OSB Board, 235x50mm Solid Timber Joists at 450mm Centres, 100mm Knauf Earthwool, AMC Channel Clips Supported by AMC L Brackets at 450mm Centres, MF5 Ceiling Channel at Nominally 1200mm Centres, 2x15mm Knauf Soundshield Plus			

Frequency Hz	Sound Reduction Index, dB	
	½ Oct	Octave
50+	32.9	32.0
63+	29.6	
80+	35.6	
100	38.7	42.4
125	47.5	
160	46.8	
200	48.7	51.6
250	53.2	
315	56.4	
400	57.6	59.2
500	59.6	
630	61.3	
800	65.6	67.5
1000	67.9	
1250	70.0	
1600	69.8	68.8
2000	68.8	
2500	68.1	
3150	72.3	75.6
4000	77.3	
5000	82.6 *	
6300+	85.2 *	80.2
8000+	83.8 >	
10000+	76.8 >	
Average 100-3150	59.5	SRL Version 3

* shows measurement corrected for background

> shows measurement limited by background

+ shows Frequency beyond standard and not UKAS accredited

Rating according to BS EN ISO 717-1:2020

R_w(C;C_{tr})= 63 (-2;-7) dB

