

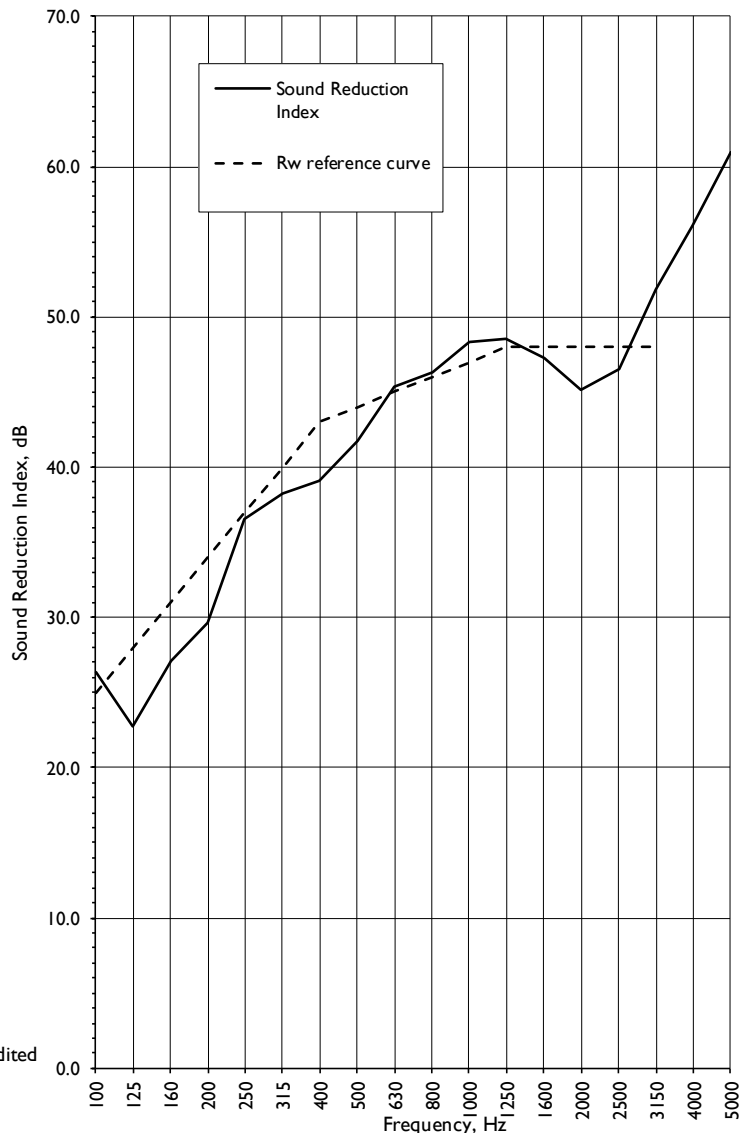
Data Sheet I

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

Test Number:	I	Test Room:	Source	Receiving
Client:	AMC Mecanocaucho	Air Temperature:	17.1 °C	16.8 °C
Test Date:	23/05/2024	Air Humidity:	70 %	68 %
Sample Height:	4.29 m	Volume:	67.2 m ³	52 m ³
Sample Width:	4.30 m	Air Pressure:	1005 mbar	
Sample Weight:	37.1 kg/m ²			

Product 1x18mm OSB Board, 235x50mm Solid Timber Joists at 450mm Centres, 100mm Knauf Earthwool, 2x15mm
Identification: Knauf Soundshield Plus

Frequency Hz	Sound Reduction Index, dB	
	1/3 Oct	Octave
50+	26.4	24.8
63+	24.6	
80+	23.9	
100	26.4	25.0
125	22.8	
160	27.1	
200	29.7	33.2
250	36.5	
315	38.2	
400	39.1	41.4
500	41.8	
630	45.4	
800	46.3	47.6
1000	48.3	
1250	48.5	
1600	47.3	46.2
2000	45.2	
2500	46.5	
3150	51.8	54.8
4000	56.1	
5000	61.0	
6300+	66.0	68.5
8000+	69.1 *	
10000+	72.7 >	
Average 100-3150	40.1	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})= 44 (-2;-6) dB