

## Standardized Impact Sound Pressure Levels according to ISO 140-7 Comparison of field measurements of Impact Sound Insulation of Floors

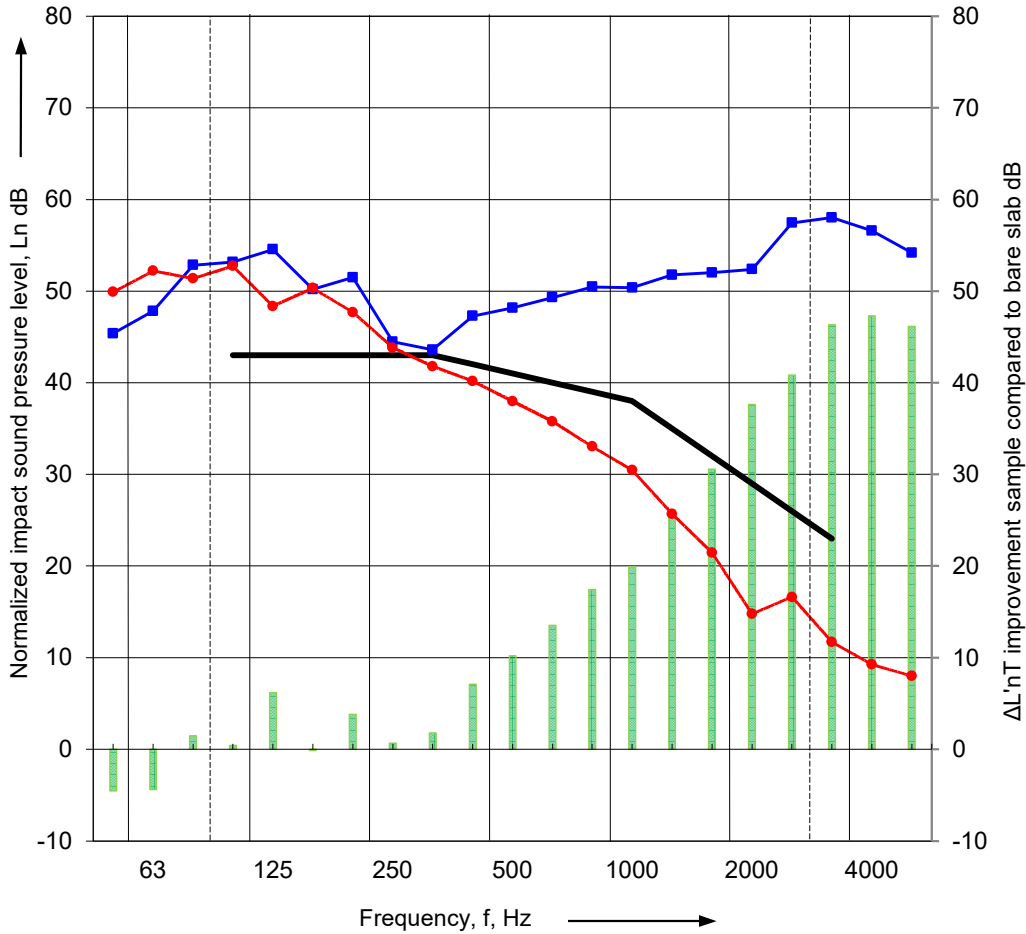
1: Sample plus substrate Clever Choice Hybrid Shield Herringbone 10mm thick, 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

2: Substrate 200mm concrete slab, 120mm cavity with no insulation, 13mm plasterboard ceiling

3:  $\Delta L'nT$   $\Delta L'nT$  improvement due to Clever Choice Hybrid Shield Herringbone 10mm

$L'nT, w$  41 curve ----- Frequency range according to the  
curve of reference values (ISO 717-2)

Frequency f Hz	L'nT dB 1/3 octave		
	1	2	3
50	50	45	-4.5
63	52	48	-4.4
80	51	53	1.5
100	53	53	0.4
125	48	55	6.2
160	50	50	-0.1
200	48	52	3.8
250	44	44	0.7
315	42	44	1.8
400	40	47	7.1
500	38	48	10.2
630	36	49	13.5
800	33	50	17.4
1000	30	50	19.9
1250	26	52	26.1
1600	21	52	30.6
2000	15	52	37.6
2500	17	57	40.8
3150	12	58	46.3
4000	9.3	57	47.3
5000	8	54	46.2



$L'nT, w$	41	61	n/a
$C_i$	1	-13	n/a
$C_i(50-2500)$	3	-12	n/a
$\Delta L'nT, w$	n/a	n/a	20
AAAC Star	5	2	n/a
FIIC	60	35	n/a

Rating according to ISO 717-2

1: Sample plus substrate  $L'nT, w$  (  $C_i$  ;  $C_i50-2500$  ) = 41 ( 1 ; 3 ) dB;

2: Substrate only  $L'nT, w$  (  $C_i$  ;  $C_i50-2500$  ) = 61 (-13 ; -12) dB;

Testing Company:	Acoustic Works	Client:	Clever Choice Paxwood Pty Ltd
Project number:	2023038	Sample area:	1m <sup>2</sup>
Location of test:	Level 25 (of 39) residential building Broadbeach	Room dimensions:	9.7m(L) x 6.4m(W) x 2.6m(H)
Date of test:	14 February 2023		