

Chameleon Flooring Pty Ltd

TEST REPORT

SCOPE OF WORK

3.0mmLVT+1.5mmIXPE

TEST DATE

2021-11-07

REPORT NUMBER

211022XS-TR01-03

PAGES

5

Test Report

Issue Date: 2021-11-07

Report Number: 211022XS-TR01-03

Test: Reducing impact sound transmission

Reviewer: Jie Xu

Test Start Date: 2021.11.07

Test Finish Date: 2021.11.07

Sample: 3.0mmLVT+1.5mmIXPE

Standards: ISO 10140-3:2010

Procedure: ISO 717-2:2013

Floor-Ceiling Assemblies: The system consisted of 150mm thick concrete floor without drop ceiling and the 4.6mm flooring(including 1.5mm underlayment) were placed on the concrete floor.

Flooring

Overall thickness : 4.59 mm

Length: 1223 mm Breadth: 187 mm

Underlayment: (if applicable)

Thickness : 1.5 mm Grammage : / kg/m²

Hardness (Shore A): / Category: IXPE

Volume of the source room 131 V_S, m³

Volume of the receiving room 131 V_R, m³

Source room temperature 21.4 t_s, °C

Receiving room temperature 21.2 t_R, °C

Area of test specimen 10.6 S, m²

Relative humidity of test room 81 %

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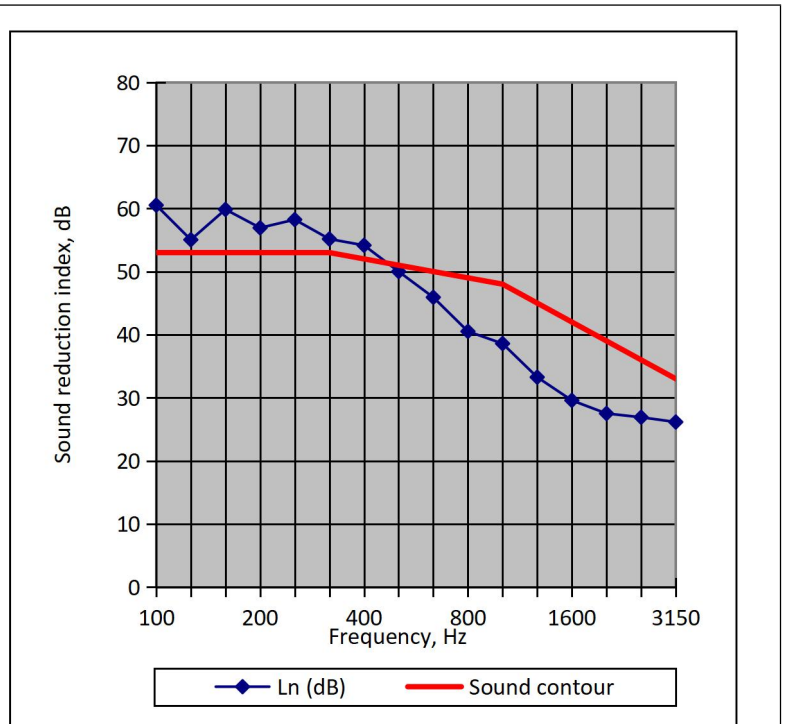
Test: Reducing impact sound transmission

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Frequency (Hz)	L_n (dB)
100	60.5
125	55.0
160	59.8
200	56.9
250	58.2
315	55.2
400	54.2
500	50.0
630	45.9
800	40.5
1000	38.6
1250	33.3
1600	29.6
2000	27.5
2500	26.9
3150	26.1



Rating according to ISO 712-2: 2013 in one-third octave band ,the $L_{n,w}$ was shown below.

Weighted normalized impact sound pressure level	$L_{n,w} =$	51 dB
Spectrum adaptation	$C_1 =$	0 dB

Note

Evaluation based on laboratory measurement result obtained by an engineering method.

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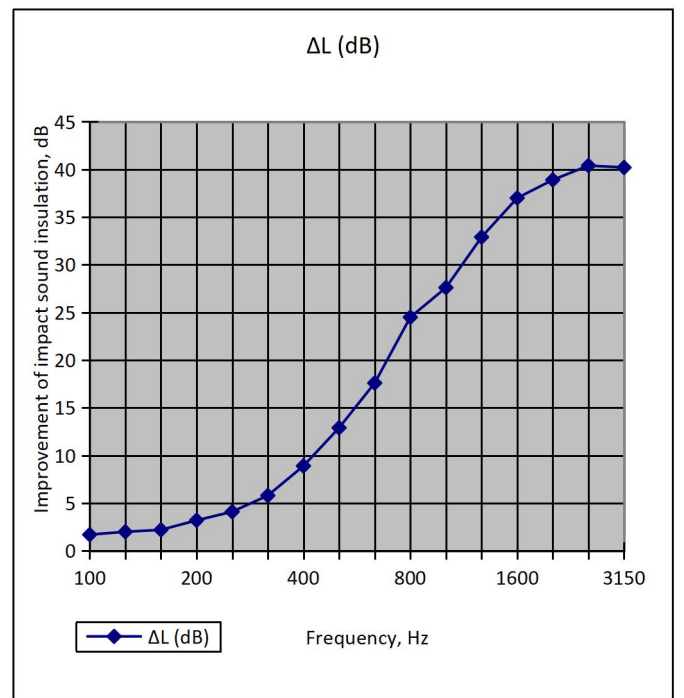
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Frequency (Hz)	$L_{n,0}$ (dB)	ΔL (dB)
100	62.2	1.7
125	57.0	2.0
160	62.0	2.2
200	60.1	3.2
250	62.3	4.1
315	61.0	5.8
400	63.1	8.9
500	62.9	12.9
630	63.5	17.6
800	65.0	24.5
1000	66.2	27.6
1250	66.2	32.9
1600	66.6	37.0
2000	66.4	38.9
2500	67.3	40.4
3150	66.3	40.2



Rating according to ISO 712-2: 2013 in one-third octave band ,the ΔL_w was shown below.

Weighted improvement of impact sound insulation	$\Delta L_w =$	19 dB
Spectrum adaptation	$C_{\Delta} =$	-9 dB

Note

Evaluation based on laboratory measurement result obtained by an engineering method.

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Test Photo:



Test Set Up

Appendix A: Sample Received Photo



Fig.1 One Whole Roll



Fig.2 Sample Thickness