

Godfrey Hirst Australia Pty Ltd

TEST REPORT

REPORT NUMBER

180731007SHF-BP-1

ISSUE DATE

2018/8/23

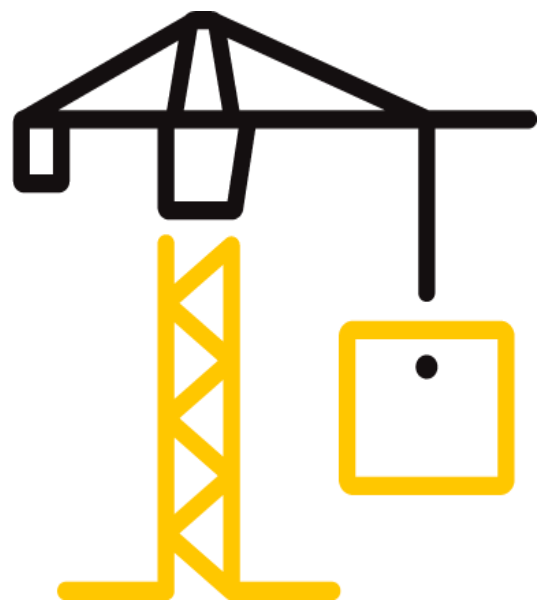
PAGES

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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10a

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Test Report

Issue Date: 2018/8/23 Intertek Report No. 180731007SHF-BP-1

Applicant: Godfrey Hirst Australia Pty Ltd

Applicant Address: 7 Factories Road South Geelong, Victoria 3220, Australia

Attn: Mandy Chandley

SUBJECT: Performance testing
GH 8mm Laminate over 2mm closed foam underlay

Dear Sir,

This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S180731007SHF.001	/	/

SAMPLE RECEIVED: 2018/7/26
TESTED FROM: 2018/7/31 TO 2018/8/23

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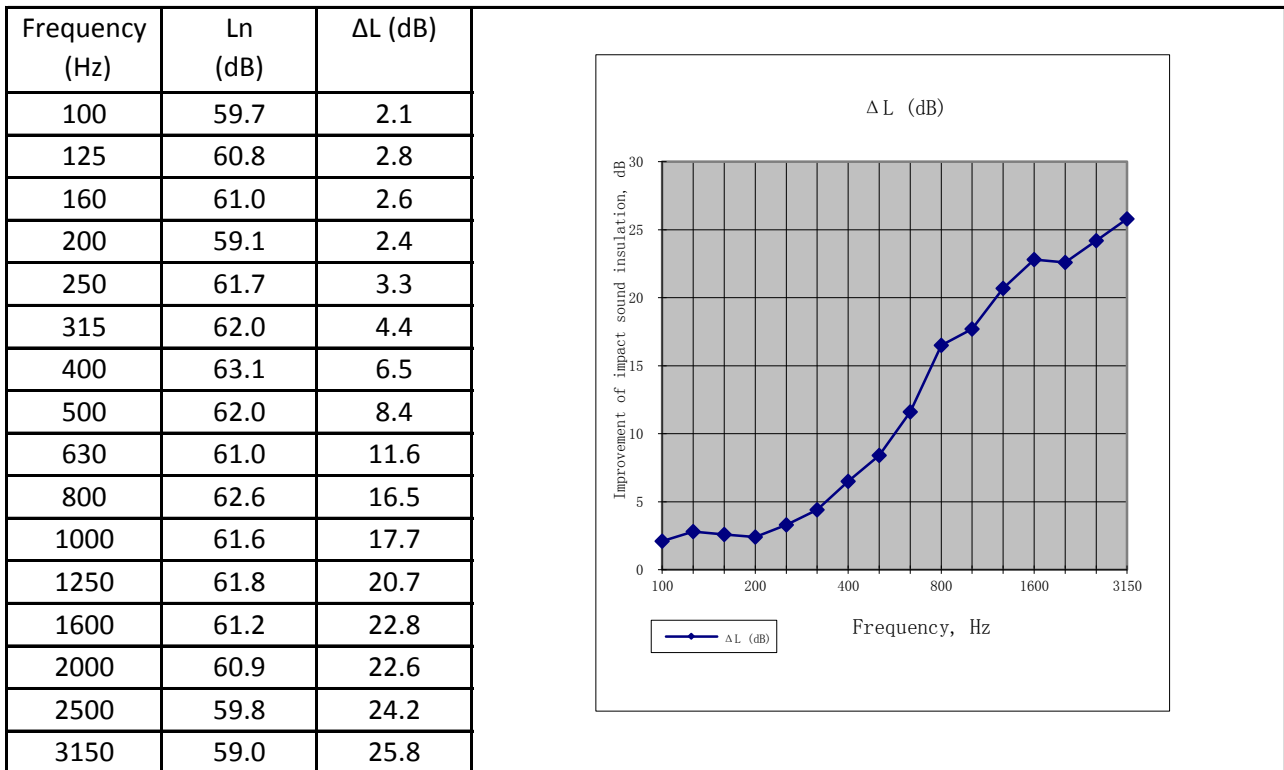
Issue Date: 2018/8/23

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Test Items, Method and Results:

Test method: ISO 10140-3:2010+A1-2015

Temperature: 34 °C Relative Humidity: 60 %
 Volume of the source room: 77 m³ Volume of the receiving room: 112 m³
 (Length × Width × Height) (5.7m × 4.9m × 4.0m)
 Specimen area: 11.4 m² Static pressure: 100.4 kPa
 Floor assembly: The system consisted of 150mm thick concrete floor and the 1.9mm underlay were placed on the concrete floor. Then the 8.2mm Laminate floorings were placed on the top of the underlay.



Rating according to ISO 717-2:2013, the ΔL_w was shown below.

Weighted improvement of impact sound insulation	ΔL _w =	17 dB
Spectrum adaptation	C _{1Δ} =	-8 dB

Note:

1. These results are based on test made with an artificial source under laboratory conditions .
2. Ln,0 = Normalized Sound Pressure Level for Bare standard concrete floor
 ΔL = Reduction of impact sound pressure level after floor covering
 ΔL_w = Weighted reduction of impact sound pressure level
 C_{1Δ} = Spectrum adaptation term

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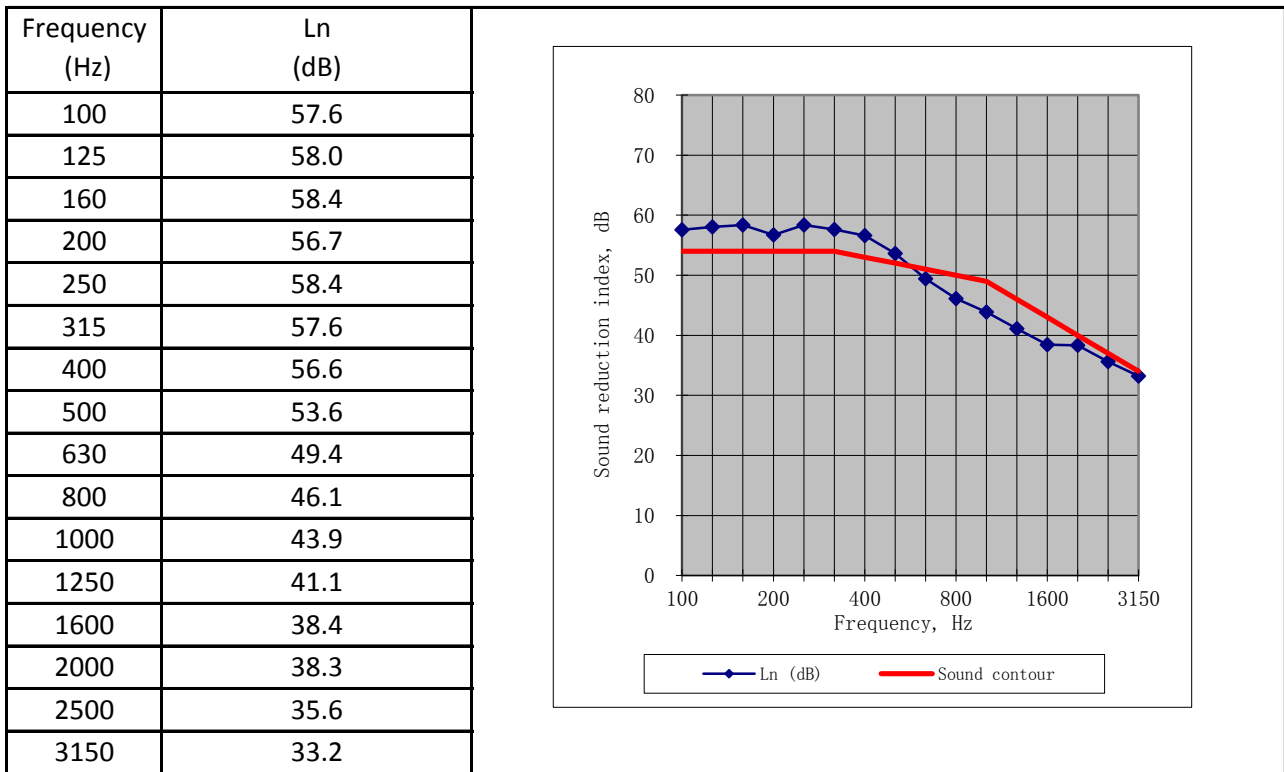
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 Floor assembly: The system consisted of 150mm thick concrete floor and the 1.9mm underlay were placed on the concrete floor. Then the 8.2mm Laminate floorings were placed on the top of the underlay.



Rating according to ISO 717-2:2013, the Ln,w was shown below.

Weighted normalized impact sound pressure level	Ln,w=	52	dB
Spectrum adaptation	C _i =	0	dB

Note:

- These results are based on test made with an artificial source under laboratory conditions .
- Ln = Normalized Sound Pressure Level for Covering over Floor System
 Ln,w = Weighted normalized impact sound pressure level
 C_i = Spectrum adaptation

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Test Items, Method and Results:

Test method: ASTM E492-09(2016)^{e1}

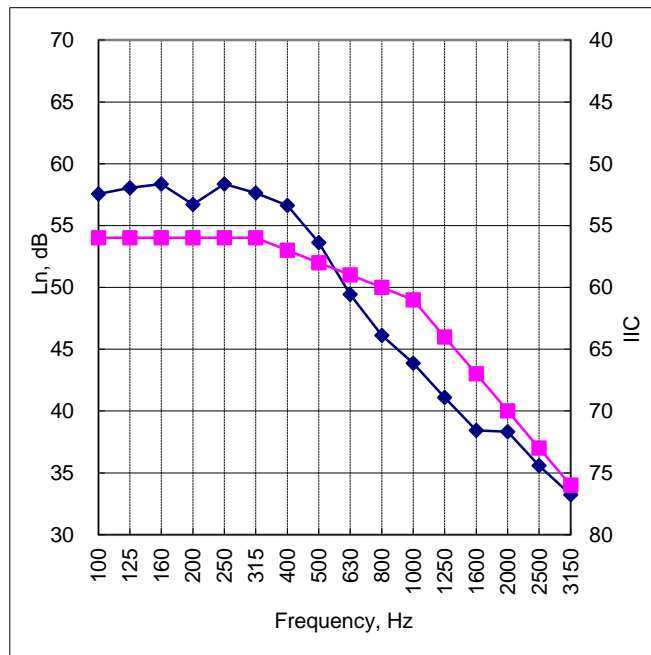
Temperature: 34 °C

Relative Humidity: 60 %

Specimen area: 11.4 m²

Floor assembly: The system consisted of 150mm thick concrete floor and the 1.9mm underlay were placed on the concrete floor. Then the 8.2mm Laminate floorings were placed on the top of the underlay.

Frequency (Hz)	Ln (dB)
100	58
125	58
160	58
200	57
250	58
315	58
400	57
500	54
630	49
800	46
1000	44
1250	41
1600	38
2000	38
2500	36
3150	33
IIC=	58



Calculated Impact Insulation Class: IIC 58

Note:

1. Ln = Normalized Sound Pressure Level for Covering over Floor System
2. Classified IIC in accordance with ASTM E989-12, Standard Classification for Determination of Impact Insulation Class.
3. The IIC was for the whole floor assembly system.

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Test Photos:



Test set up

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APPENDIX: SAMPLE RECEIVED PHOTO



REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.


Jodie Zhou Evyn Cui
Name: Jodie Zhou Name: Evyn Cui
Title: Reviewer Title: Project Engineer

Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
180731007SHF-BP-1	2018/8/23	First issue	Evyn Cui	Jodie Zhou