Godfrey Hirst

TEST REPORT

SCOPE OF WORK
GH Engineered Timber 14/3mm -Pioneer

REPORT NUMBER
190725010SHF-001-R1

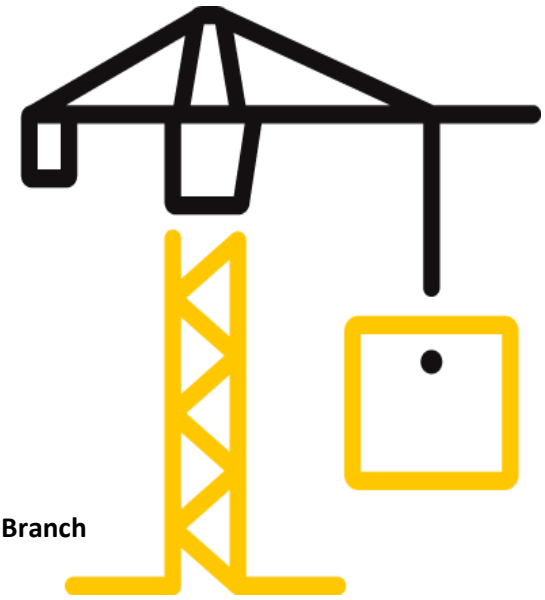
TEST DATE(S)
2019-07-25 - 2019-08-15

ISSUE DATE
2019-08-15

REVISED DATE
2019-08-16

PAGES
7

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(May 1, 2019)



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

Statement

1.This report is invalid without company's special seal for testing on assigned page.

2.This report is invalid without authorized person's signature.

3.This report is invalid where any unauthorized modification indicated.

4.Don't copy this report in partial (except full copy) without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.

5.Any holder of this document is advised that this report is for the exclusive use of Intertek's Customer and is provided pursuant to the agreement between Intertek and its Customer. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. This report was made with due care within the limitation of a defined scope of work and on the basis of information, materials and instructions received from the Customer or its nominated third parties. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. The tests results are not intended to be a recommendation for any particular course of action. Customer is responsible for acting as it sees fit on the basis of such results.

6.Intertek's written consent is required to use Intertek's name or logo on the object, product or service being tested. The observations and test results in this report relate only to the sample under test. This report alone does not indicate that the item, product or service has passed any Intertek certification program.

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: 021-61136116 Fax: 021-61189921
Website: www.intertek.com

Test Report

Issue Date: 2019-08-16 Intertek Report No. 190725010SHF-001-R1

Applicant: Godfrey Hirst

Address: 7 Factories Road South Geelong Victoria Australia 3220

Attn: Mandy Chandley

Test Type： Performance test, samples provided by the applicant.

Product Information

Product Name	GH Engineered Timber 14/3mm -Pioneer	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	15 m^2
		Received Date	2019-07-23; 2019-07-25

Sample ID	Model	Specification
S190725010SHF.001	/	Engineered Timber: 1820x136x14mm
S190725010SHF.002	/	Foam underlay: 2mm

Test Methods And Standards

Test Standard	ISO 10140-3:2010+A1-2015
Specification Standard	ISO 717-2:2013
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Name: Jodie Zhou Name: Nicole Shi

Title: Reviewer Title: Project Engineer

intertek
Total Quality. Assured.

Test Report

Issue Date: 2019-08-16 Intertek Report No. 190725010SHF-001-R1

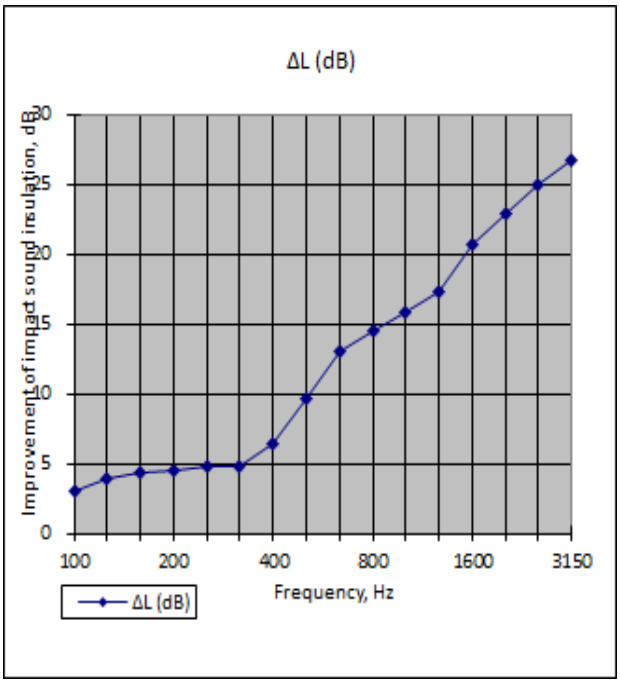
Test Items, Method and Results:

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

Temperature:	29	°C	Relative Humidity:	90	%
Volume of the source room:	77	m^3	Volume of the receiving room: (Length × Width × Height)	112 (5.7m × 4.9m × 4.0m)	m^3
Specimen area:	12.4	m^2	Static pressure:	101.3	kPa

Floor assembly: The system consisted of 150mm thick concrete slab and 14.3mm GH Engineered Timber with 1.95mm foam (density: 0.28kg/m^2) underlay.

Frequency (Hz)	Ln,0 (dB)	ΔL (dB)
100	63.0	3.0
125	66.0	4.0
160	63.8	4.4
200	64.2	4.6
250	64.3	4.8
315	65.1	4.9
400	63.8	6.4
500	65.1	9.7
630	64.9	13.1
800	65.1	14.6
1000	64.6	15.8
1250	64.3	17.3
1600	64.0	20.8
2000	63.7	23.0
2500	62.1	25.0
3150	60.7	26.8



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

Weighted improvement of impact sound insulation	ΔLw=	18	dB
Spectrum adaptation	$C_{I\Delta}$=	-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
   ΔLw = Weighted reduction of impact sound pressure level
   $C_{I\Delta}$ = Spectrum adaptation term

3. The result was for the laminate floor with foam underlay assembly. The floor and the foam underlay were supplied by the applicant.

intertek
Total Quality. Assured.

Test Report

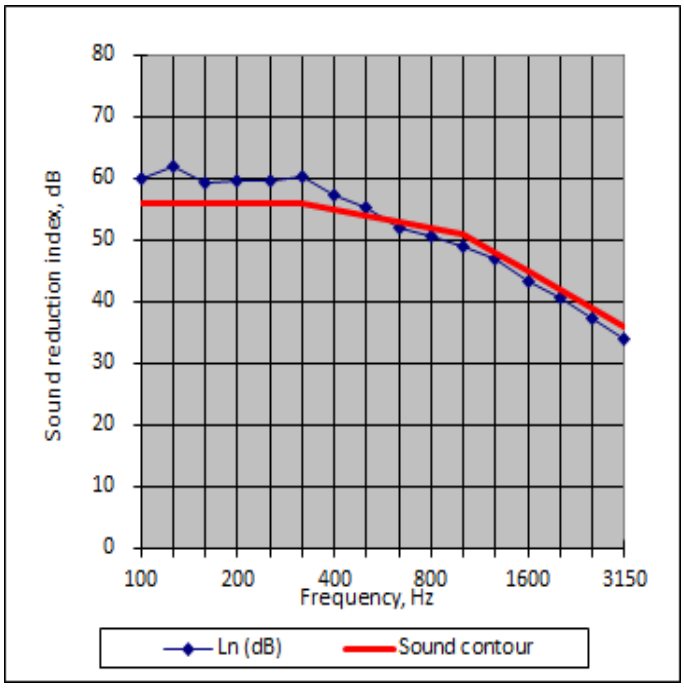
Issue Date: 2019-08-16 Intertek Report No. 190725010SHF-001

Test Items, Method and Results:

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

Temperature:	29 °C	Relative Humidity:	90 %
Volume of the source room:	77 m^3	Volume of the receiving room: (Length × Width × Height)	112 m^3 (5.7m × 4.9m × 4.0m)
Specimen area:	12.4 m^2	Static pressure:	101.3 kPa
Floor assembly:	The system consisted of 150mm thick concrete slab and 14.3mm GH Engineered Timber with 1.95mm foam (density: 0.28kg/m^2) underlay.		

Frequency (Hz)	Ln (dB)
100	60.0
125	62.0
160	59.4
200	59.6
250	59.5
315	60.2
400	57.4
500	55.4
630	51.8
800	50.5
1000	48.8
1250	47.0
1600	43.2
2000	40.7
2500	37.1
3150	33.9



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

Weighted normalized impact sound pressure level	Ln,w=	54	dB
Spectrum adaptation	C_I=	0	dB

Note:

1. These results are based on test made with an artificial source under laboratory conditions .

2. Ln = Normalized Sound Pressure Level for Covering over Floor System
   Ln,w = Weighted normalized impact sound pressure level
   C_I = Spectrum adaptation

3. The result was for the whole floor assembly. The floor and the foam underlay was supplied by the applicant.

Test Report

Issue Date: 2019-08-16 Intertek Report No. 190725010SHF-001-R1

Test Photo:

Test Set Up

Test Report

Issue Date: 2019-08-16 Intertek Report No. 190725010SHF-001-R1

Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes	Author	Reviewer
190725010SHF-001	2019-08-15	First issue	Nicole Shi	Jodie Zhou
190725010SHF-001-R1	2019-08-16	Modify specification description.	Nicole Shi	Jodie Zhou