

# ECCO ENTERPRISES LTD.

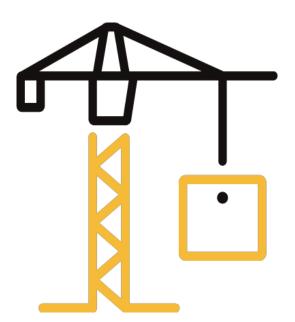
## **TEST REPORT**

REPORT NUMBER 190712005SHF-BP-1

**ISSUE DATE** 2019-07-25

PAGES 8

DOCUMENT CONTROL NUMBER LFT-APAC-SHF-OP-10a © 2018 INTERTEK





Issue Date:	2019-07-25	Intertek Report No.	190712005SHF-BP-1
Applicant:	ECCO ENTERPRISES LTD		
Applicant Address:	NO.199 GAOJIA ROAD,WUJIN,D	ISTRICT,CHANGZHOU,	P.R.CHINA
Attn:	N/A		
SUBJECT:	Performance testing ECCO ENTERPSISE LTD		

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
190712005SHF.001~003	/	Flooring Size: 1220*152*4.5
SAMPLE RECEIEVED: TESTED FROM:	2019-07-09 2019/07/12	TO 2019/07/25

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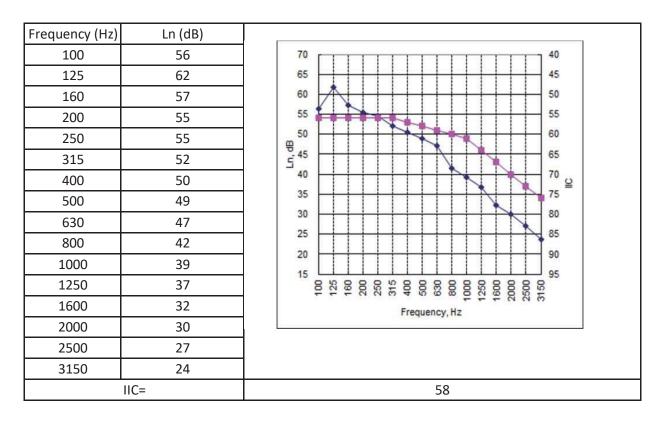


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### Test Items, Method and Results:

Test method: ASTM	E492-09	3
(2016)		
Temperature:	23	°C
Relative Humidity:	70	%
Specimen area:	11	$m^2$
Floor assembly:		

The system consisted of 150mm thick concrete floor and the 4.5mm PVC Flooring (Backed with underlayment) were placed on the concrete floor.



## 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.

4. The thickness, manufacturing technique and raw material among the samples are the same except for colour claimed by the applicant.

Issue Date:	2019/07/25
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### Test Items, Method and Results:

Test method: ASTM E2179-2003(R2016)

Temperature: 23 °C

Relative Humidity: 70 %

Specimen area: 11 m<sup>2</sup>

Floor assembly: The system consisted of 150mm thick concrete floor and the 4.5mm PVC Flooring (Backed with underlayment) were placed on the concrete floor.

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Frequency	LO	Lc	Ld	Lref	Lref,c	
(Hz)	(dB)	(dB)	(dB)	(dB)	(dB)	70
100	59.6	56.3	3.3	67.0	63.7	70 40
125	64.2	61.8	2.4	67.5	65.1	65 45
160	60.7	57.2	3.5	68.0	64.5	
200	61.5	55.4	6.1	68.5	62.4	60 50
250	62.5	54.6	7.9	69.0	61.1	5555
315	62.1	52.0	10.1	69.5	59.4	⊕ <sub>20</sub>
400	62.7	50.5	12.2	70.0	57.8	⊕ <sup>55</sup> ≤50
500	63.3	48.9	14.4	70.5	56.1	
630	63.4	47.2	16.2	71.0	54.8	45 65
800	62.7	41.6	21.1	71.5	50.4	40 70
1000	62.6	39.3	23.3	72.0	48.7	40 70
1250	63.2	36.8	26.4	72.0	45.6	35 75
1600	62.6	32.3	30.3	72.0	41.7	
2000	62.7	30.1	32.6	72.0	39.4	30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2500	61.9	27.0	34.9	72.0	37.1	$\begin{array}{c} 100\\ 1250\\ 2500\\ 2500\\ 1250\\ 11000\\ 1250\\ 22000\\ 22000\\ 1250\\ 315\\ 22000\\ 315$
3150	61.1	23.7	37.4	72.0	34.6	Frequency, Hz
IICc:	=		5	4		
ΔIIC=IIC	c-28=	26				

Calculated improvement in Impact Insulation Class: IICc –28 = ØIIC 26

Note:

1. L0 = Normalized Sound Pressure Level for Bare standard concrete floor

Lc = Normalized Sound Pressure Level for Covering over concrete floor

Ld = LO - Lc

Lref = Reference floor average Normalized Impact Sound Pressure Level Lref,c = Lref – Ld

2. Classified IIC in accordance with ASTM E989-12, "Standard Classification for Determination of Impact Insulation Class".

3. The thickness, manufacturing technique and raw material among the samples are the same except for colour claimed by the applicant.



#### Issue Date:

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**Test Photos:** 



Test set up

Note:

The applicant claimed that the specimens were the same samples except color.

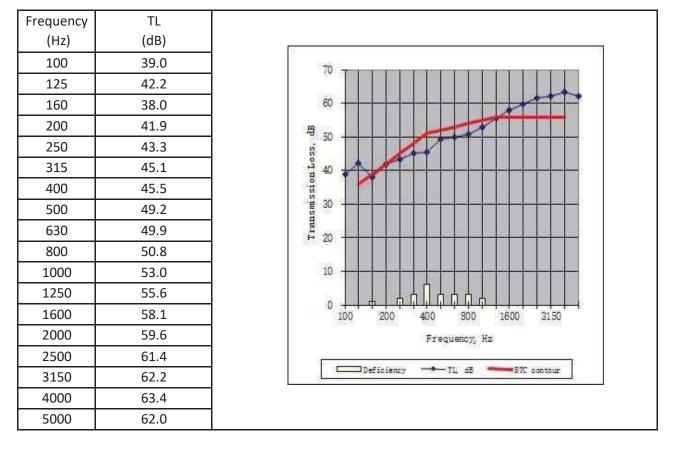


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## Test Items, Method and Results:

Test method: ASTM E90-2009(R2016)

Temperature:	23	°C	Relative Humidity:	70 %
Volume of the source room:	77	m <sup>3</sup>	Volume of the receiving room:	112 m <sup>3</sup>
Specimen area:	11	m <sup>2</sup>		
Floor assembly:		ing (Backed v	ted of 150mm thick concrete floor an vith underlayment) were placed on th	



## Calculated Sound Transmission Class: STC 52

Note:

1. TL= Transmission loss

2. Classified STC in accordance with ASTM E413-10, Classification for Rating Sound Insulation.

3. The STC was for the whole floor assembly system.

4. The thickness, manufacturing technique and raw material among the samples are the same except for colour claimed by the applicant.

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#### **Test Photos:**



Test set up

Note:

The applicant claimed that the specimens were the same samples except color.



Total Quality. Assured.

## **Test Report**

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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.



#### **Revision:**

NO.	DATE	CHANGES	AUTHOR	REVIEWER
190712005SHF-BP-1	2019-07-25	First issue	Evyn Cui	Jodie Zhou