

Test Report No.: CZHL2303001027HI **Date:** MAR. 28, 2023 Page 1 of 7

DALIAN YINLONG WOOD CO., LTD.

NO.10 BOHAI STREET, HUSHAN COMMUNITY, TIEXI SUBDISTRICT, PULANDIAN, DISTRICT, DALIAN, LIAONING

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : ENGINEERED FLOORING

 Sample Receiving Date : MAR. 09, 2023
 Testing Period : MAR. 09, 2023 TO MAR. 28, 2023
 Testing Performed : Follow selected test(s) as requested by client.

	Test Requirement	Conclusion
1	Thermal Conductivity	See Result
2	Volatile Pollutants (VOCs)	Based on the submitted sample(s), test was performed according to Decree 2011-321 relative to the labeling of construction products, floor or wall coverings and paints and lacquers concerning their emission of volatile pollutants, sample is A+ class.

*** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ***



Land Jiang
 Authorized Signatory

scan to see the report



CZHL2303001027HI



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SGS-CSTC Technical Services (Changzhou) Co., Ltd.
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Test Results:

1. Thermal Conductivity

Test Method: EN 12664:2001 Heat Flow Meter Method

Test Condition:

Specimen: 300mm×300mm×14.7mm, 1pc

Density: about 580kg/m³

Mean temperature: 23°C

Temperature difference: 10°C

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Thermal Conductivity	0.126 W/(m·K)

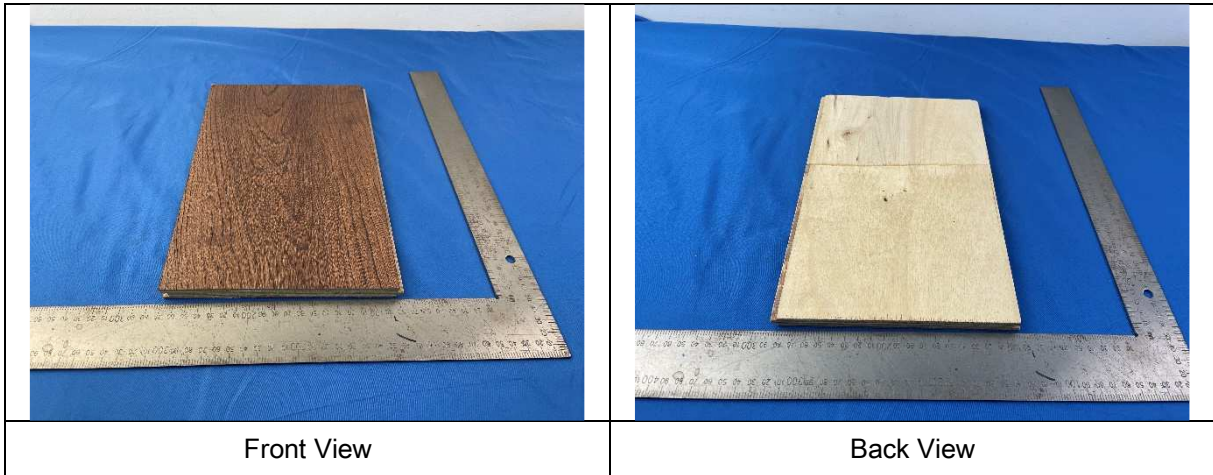
Note:

- 1) The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.
- 2) Test specimen was jointed by two pieces.
- 3) The testing was performed by SGS other internal laboratory.

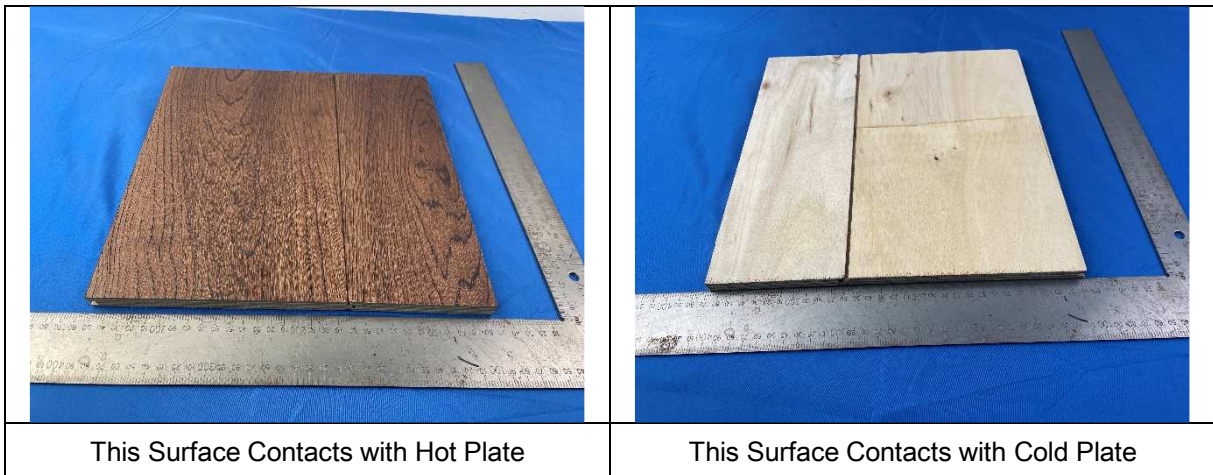


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Original Sample Photo(s):



Specimen Photo(s):



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Test Part Description :

SN ID	Sample No.	Description
SN1	A1	Brown composite floor

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated

2.Volatile Pollutants (VOCs)

Test Method: With reference to ISO 16000-9:2006 / COR1-2007 &ISO 16000-6:2021 & ISO16000-3:2022.

Testing was performed by Environmental Chamber, followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).

Test Item(s)	CAS No.	Unit(s)	A1
Test condition			
Chamber Volume	-	m ³	0.06
Storage condition (Temperature)	-	°C	(23 ± 2) °C
Storage conditon (Humidity)	-	%	(50± 5) % RH
Air Exchange Rate	-	/h	0.5
Sample loading	-	m ² /m ³	0.4
Tenax Sampling Flow	-	mL/min	200
Tenax Sampling Time	-	minute(s)	25
Tenax Sampling Volume	-	L	5
DNPH Sampling Flow	-	mL/min	300
DNPH Sampling Time	-	minute(s)	60
DNPH Sampling Volume	-	L	18
MDL_1	-	µg/m ³	2.0
VOCs and Carbonyl Compounds			
Test Time	-	-	7 days



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Test Item(s)	CAS No.	Unit(s)	A1
Formaldehyde	50-00-0	µg/m ³	2.9
Acetaldehyde	75-07-0	µg/m ³	13.9
Toluene	108-88-3	µg/m ³	8.8
Tetrachloroethene	127-18-4	µg/m ³	ND
Xylene	1330-20-7	µg/m ³	3.5
1,2,4-Trimethylbenzene	95-63-6	µg/m ³	ND
1,4-Dichlorobenzene	106-46-7	µg/m ³	ND
Ethylbenzene	100-41-4	µg/m ³	ND
Ethylene Glycol Monobutylether(Butoxyethanol)	111-76-2	µg/m ³	ND
Styrene	100-42-5	µg/m ³	3.3
Total Volatile Organic Compounds(TVOC)	-	µg/m ³	165.1

Notes:

1. N.D.= not detectable (<MDL)
2. µg/m³ = micrograms per cubic metre

Evaluation according to Decree 2011-321 relative to the labeling of construction products, floor or wall coverings and paints and lacquers concerning their emission of volatile pollutants

Classes	C	B	A	A+
Formaldehyde	> 120	< 120	< 60	< 10
Acetaldehyde	> 400	< 400	< 300	< 200
Toluene	> 600	< 600	< 450	< 300
Tetrachloroethylene	> 500	< 500	< 350	< 250
Xylene	> 400	< 400	< 300	< 200
1,2,4-Trimethylbenzene	> 2000	< 2000	< 1500	< 1000
1,4-Dichlorobenzene	> 120	< 120	< 90	< 60
Ethylbenzene	> 1500	< 1500	< 1000	< 750
2-Butoxyethanol	> 2000	< 2000	< 1500	< 1000
Styrene	> 500	< 500	< 350	< 250
TVOC	> 2000	< 2000	< 1500	< 1000

Remark:

Calculated Result = SER / q



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The concentrations of exposition are calculated in a conventional reference room of a total volume (V) of 30m³, in which is applied a rate of air renewal (n) of 0.5h⁻¹ and which dimensions are specified here below:

	Surface (S) (m ²)	Load rate (L=S/V) (m ² /m ³)	Surface specific emission output (q=n/L) (m ³ .m ⁻² .h ⁻¹)
Floor	12	0.4	1.25
Ceiling	12	0.4	1.25
One door	1.6	0.05	10
One window	2	0.07	7
Walls (minus door and window)	31.4	1	0.5
Joints (or very small surfaces)	0.2	0.007	70

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($\mu=0$) stated in ILAC-G8:09/2019.

Sample Photo:



SGS authenticate the photo on original report only

Result/Rating/Record Key(s)

- I. Result/Rating Keys: P = Pass = Meet; F = Fail = Not Meet; N/A = Not applicable = Not suitable; NR = NC = Test not conduct/requested per client request; TT = Test terminated due to the earlier failure of last test.
- II. Record Keys: "C:" means Claimed parameter; "A:" means Actual recorded from test; "D:" means Data for reference only.



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General Report Note(s)

- A. N.B. Only applicable clauses were shown.
- B. (1) 1mg/kg = 0.0001% (2) MDL = Method Detection Limit (3) ND = Not Detected (< MDL)
(4) “-“ = Not Regulated
- C. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- D. This document cannot be used for publicity, without prior written approval of the SGS.
- E. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Testing results only apply to the sample as received.
- F. The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.

*** End of Report ***



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