

Test Report No.: CZHL2303001029HI **Date:** MAR. 28, 2023 Page 1 of 7

MUDANJIANG YOULIN WOOD CO., LTD.
NO.108 TONGXIANG ROAD AIMIN DISTRICT MUDANJIANG HEILONGJIANG CHINA

THIS TEST RESULT IS COPIED FROM THE TEST REPORT No.: CZHL2303001027HI,
DATE: MAR. 28, 2023.

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



CZHL2303001029HI



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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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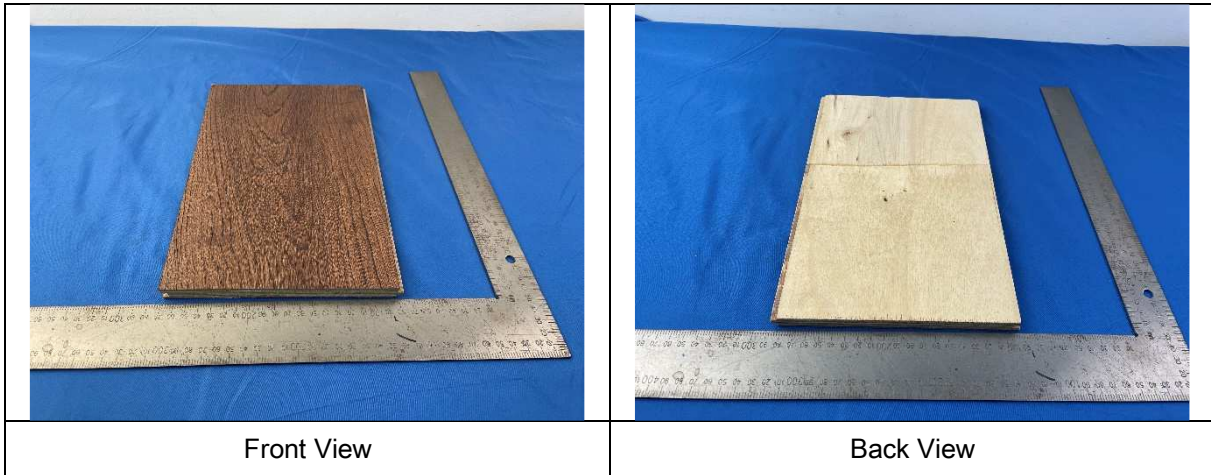
Test Report

No.: CZHL2303001029HI

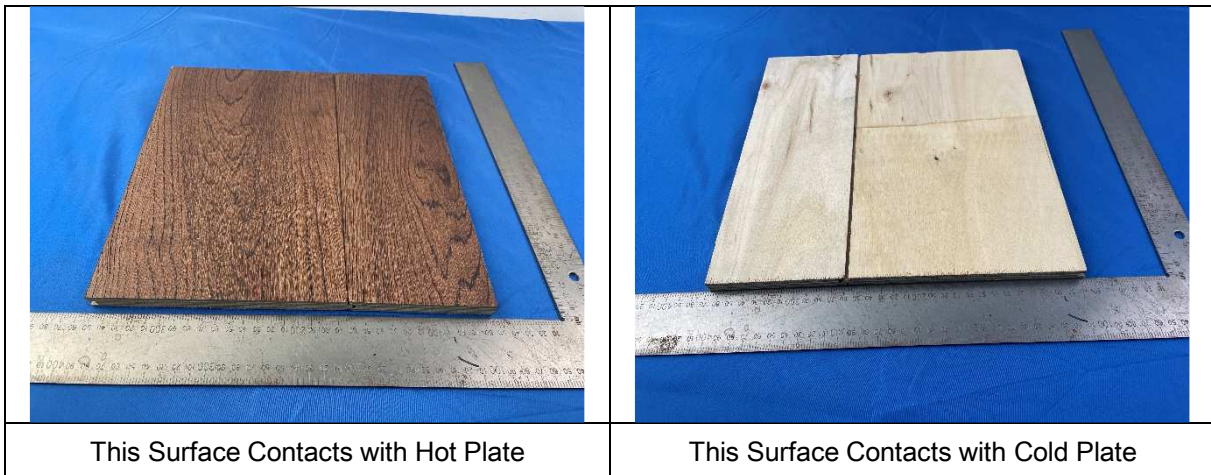
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Original Sample Photo(s):



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.



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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