

Sample Description : ENGINEERED WOOD FLOORING

Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SHHL2302005783HI/ CAN23-032584

Sample Receiving Date : Feb 20, 2023

Test Performing Date : Mar 08, 2023 to Mar 29, 2023

Test Performed : Selected test(s) as requested by applicant

Test Result(s) :

Test Requested	Result
Decree 2011-321 relative to the labeling of construction products, floor or wall coverings and paints and lacquers concerning their emission of volatile pollutants - Emission of volatile pollutants	A ⁺

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joan Huang



Joan Huang
Authorized Signatory



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Test Result(s) :

Test Part Description :

SGS Sample ID	Description
CAN23-032584.001	Light brown surfaced plywood

Remarks :

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

VOC

Test Method : With reference to ISO 16000-9:2006 / COR1-2007 & ISO 16000-6:2021 & ISO16000-3:2011.
 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)	Unit	001
Gas trapping analysis condition		
Chamber Volume	m ³	0.05
Storage condition (Temperature)	°C	23
Storage condition (Humidity)	%	50.6
Air Exchange Rate	1/h	0.5
Sample loading	m ² /m ³	0.4
Tenax Sampling Flow	mL/min	200
Tenax Sampling Time	minutes	25
Tenax Sampling Volume	L	5
DNPH Sampling Flow	mL/min	300
DNPH Sampling Time	minutes	60
DNPH Sampling Volume	L	18
MDL	µg/m ³	2.0

Test Item(s)	CAS NO.	Unit	001
		-	7th day
Toluene	108-88-3	µg/m ³	2.3
Tetrachloroethylene	127-18-4	µg/m ³	ND
Xylene	108-38-3&106-42-3&95-47-6	µg/m ³	ND



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 Guangzhou Branch Testing Center, Haidian Road

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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
2-Butoxyethanol	111-76-2	µg/m ³	ND
Styrene	100-42-5	µg/m ³	ND
TVOC		µg/m ³	3.5
Formaldehyde	50-00-0	µg/m ³	ND
Acetaldehyde	75-07-0	µg/m ³	ND

Notes :

µ g/(m²·h) = micrograms per square metre and hour

µ g/m³ = micrograms per cubic metre

mg/m³ = milligrams 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:

Unit: µg/m³

Calculated Result = SER / q



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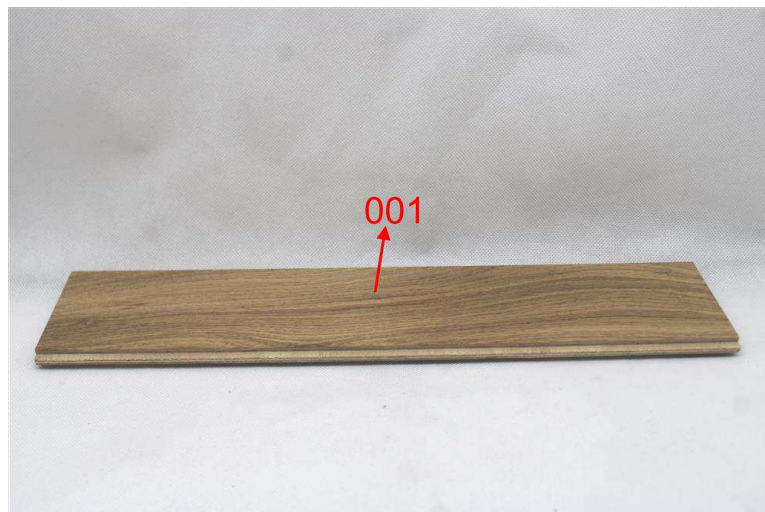
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The concentrations of exposition are calculated in a conventional reference room of a total volume (V) of 30m³, in which is applied a rate of air renewal (n) of 0.5h⁻¹ and which dimensions are specified here below:

	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 (w =0) stated in ILAC-G8:09/2019.

Sample photo:



End of Report



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