

Test Report

No. CZXHG2200135201

Date: 22 Aug 2022

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Client Name : ZENITH (SHANGHAI) HIGH-TECH CO., LTD

Client Address : L1, BLDN 2, 1788 HANGTANG RD, JINHUI TOWN

Sample Name : VERSE 1 1080X1080X2200

The above sample(s) and information were provided by the client.

SGS Job No. : CZHL2207006678OT - CZ

Date of Sample Received : 04 Aug 2022

Testing Period : 04 Aug 2022 - 22 Aug 2022

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
ANSI/BIFMA M 7.1-2011(R2016) - Volatile Organic Compounds (VOCs) Emissions	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd.

Joy Huan

Joy huan
Approved Signatory



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CZX22-001352.001	Telephone booth

Remarks :

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

ANSI/BIFMA M 7.1-2011(R2016) - Volatile Organic Compounds (VOCs) Emissions

Test Method : With reference to ANSI/BIFMA M 7.1-2011(R2016) .

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).

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Test Condition				
Chamber Volume	-	m ³	-	5
Testing Temperature	-	°C	-	(23 ± 1) °C
Testing Humidity	-	%	-	(50± 5) % RH
Air Exchange Rate	-	1/h	-	1
Tenax Sampling Flow	-	mL/min	-	200
Tenax Sampling Volume	-	L	-	5
DNPH Sampling Flow	-	mL/min	-	1000
DNPH Sampling Volume	-	L	-	60
Concentrations in Chamber (72h)				
TVOC(toluene)	-	mg/m ³	0.002	0.344
Formaldehyde	-	mg/m ³	0.002	0.069
Total Aldehydes	-	mg/m ³	0.002	0.077
4-Phenylcyclohexene	-	mg/m ³	0.002	ND
Emission Factor in Chamber (72h)				
TVOC(toluene)	-	mg/ (h-unit)	0.002	1.720
Formaldehyde	-	mg/ (h-unit)	0.002	0.345



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Test Item(s)	Limit	Unit	MDL	001
Total Aldehydes	-	mg/ (h-unit)	0.002	0.385
4-Phenylcyclohexene	-	mg/ (h-unit)	0.002	ND
Concentrations in Chamber (168h)				
TVOC(toluene)	-	mg/m ³	0.002	0.334
Formaldehyde	-	mg/m ³	0.002	0.070
Total Aldehydes	-	mg/m ³	0.002	0.077
4-Phenylcyclohexene	-	mg/m ³	0.002	ND
Emission Factor in Chamber (168h)				
TVOC(toluene)	-	mg/ (h-unit)	0.002	1.670
Formaldehyde	-	mg/ (h-unit)	0.002	0.350
Total Aldehydes	-	mg/ (h-unit)	0.002	0.385
4-Phenylcyclohexene	-	mg/ (h-unit)	0.002	ND
Concentration (Office 1)				
TVOC(toluene)	≤ 0.5	mg/m ³	-	0.111
Formaldehyde	≤ 50	ppb	-	18.881
Total Aldehydes	≤ 100	ppb	-	20.168
4-Phenylcyclohexene	≤ 0.0065	mg/m ³	-	ND
Concentration (Office 2)				
TVOC(toluene)	≤ 0.5	mg/m ³	-	0.048
Formaldehyde	≤ 50	ppb	-	8.162
Total Aldehydes	≤ 100	ppb	-	8.718
4-Phenylcyclohexene	≤ 0.0065	mg/m ³	-	ND
Comment				PASS
Notes :				

- (1) Office 1: Typical open plan office environment, its clean air ventilation rate $Q_0=15.0\text{m}^3/\text{h}$.
- (2) Office 2: Typical private office environment, its clean air ventilation rate $Q_0=34.7\text{m}^3/\text{h}$.
- (3) Data at the 168th hour was used to calculate and compare with the emission limits.



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Remark:

Compounds	Unit	Limits of indoor air concentration	
		Systems Furniture	Seating
TVOC _{toluene}	mg/m ³	≤ 0.5	≤0.25
Formaldehyde	ppb	≤50	≤25
Total Aldehydes	ppb	≤100	≤50
4-Phenylcyclohexene	mg/m ³	≤0.0065	≤0.00325

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:



SGS authenticate the photo on original report only

*** End of Report ***



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