

InnoMaster Home(ZhongShan)Co.,Ltd

TEST REPORT

SCOPE OF WORK

LCB Wall panel

REPORT NUMBER

241125054GZU-003

TEST DATE(S)

2024-11-26 ~ 2024-12-30

ISSUE DATE

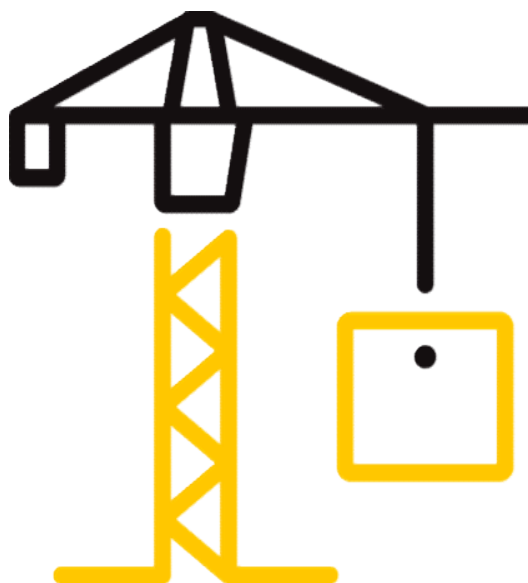
2024-12-31

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

DOCUMENT CONTROL NUMBER

TTRF_Performance _02b

Effective date:2024-2-22

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Client Information:

Applicant Name:	InnoMaster Home(ZhongShan)Co.,Ltd
Address:	The 5th of No.2 SHA GANG DONG ROAD ,GANGKOU TOWN ,ZHONGSHAN CITY ,GUANGDONG PROVINCE, CHINA
Attn:	/

Product Information:

Product Name	LCB Wall panel	Sample Description	Good Condition
Model and/or type reference	/	Received Date	2024/11/18
Sample ID.	S241125054GZU.003	Sample Amount	1 box
Manufacturer	InnoMaster Home(ZhongShan)Co.,Ltd		
Address	The 5th of No.2 SHA GANG DONG ROAD ,GANGKOU TOWN ,ZHONGSHAN CITY ,GUANGDONG PROVINCE, CHINA		
Test Type	Performance test, samples provided by the applicant		

Test Methods And Standards:

Test Standard	Please refer to next following pages.
Specification Standard	Please refer to next following pages.
Test Conclusion	Please refer to next following pages.

Laboratory information:

Testing Laboratory	Intertek testing services Shenzhen Ltd. Guangzhou Branch
Test location	Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China

Report Authorized :

Approved By:

Penny Pan

Penny Pan
Technical Manager

Checked By:

John He

John He
Engineer

Noted: If you have any questions for the report, please contact: lillian.lf.he@intertek.com

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Test Items, Method and Results:

1. Volatile Organic Compounds And Aldehyde Content Analysis

With Reference To ISO 16000-3:2022, ISO 16000-6:2021, ISO 16000-9:2024 & ISO 16000-11:2024, The Sample Was Tested In The Emission Test Chamber. After Defined Times Samples Of The Chamber Air Were Collected On Sorbent Tubes (Tenax TA & DNPH Cartridge) VOCs Were Detected By Automatic Thermal Desorption-Gas Chromatography /Mass Spectrometric (ATD-GC/MS). Formaldehyde And Other Carbonyl Compound Was Identified And Quantified By DNPH Derivitization And Detected By High Performance Liquid Chromatography-Diode-Array Detector (HPLC/DAD).

Parameters of the emission chamber test:

Chamber type: 0.06 m³ stainless steel chamber

Climatic conditions: 23°C, 50% R.H

Air exchange: 0.5 h⁻¹

Loading factor: 1 m²/m³

Sampling: Tenax TA & DNPH cartridge

The cut edges of submitted sample were sealed by Aluminum tape.

Testing compound	CAS No.	Limit values of emission classes (µg/m ³) After 28 days				Result (µg/m ³) after 28 days	Emission class
		A ⁺	A	B	C		
Formaldehyde*	50-00-0	<10.0	<60.0	<120.0	>120.0	<5.0	A+
Acetaldehyde*	75-07-0	<200.0	<300.0	<400.0	>400.0	<5.0	A+
Toluene	108-88-3	<300.0	<450.0	<600.0	>600.0	<2.0	A+
Tetrachloroethylene	127-18-4	<250.0	<350.0	<500.0	>500.0	<2.0	A+
Xylene	1330-20-7	<200.0	<300.0	<400.0	>400.0	<2.0	A+
1,2,4-trimethylbenzene	95-63-6	<1000.0	<1500.0	<2000.0	>2000.0	<2.0	A+
1,4-dichlorobenzene	106-46-7	<60.0	<90.0	<120.0	>120.0	<2.0	A+
Ethylbenzene	100-41-4	<750.0	<1000.0	<1500.0	>1500.0	<2.0	A+
2-butoxyethanol	111-76-2	<1000.0	<1500.0	<2000.0	>2000.0	<2.0	A+
Styrene	100-42-5	<250.0	<350.0	<500.0	>500.0	<2.0	A+
TVOC**	--	<1000.0	<1500.0	<2000.0	>2000.0	<20.0	A+

Remark:

TVOC = Total volatile organic compounds. Substances in the range of C6 to C16.

Detection limit (individual compound)= 2.0 µg/m³

Detection limit (TVOC)= 20 µg/m³

Detection limit (Formaldehyde & Acetaldehyde) = 5.0 µg/m³.

* = indicates compound identified and quantified by DNPH derivitization and HPLC/DAD analysis.

** = Denotes quantified using the Relative Response Factor to toluene for the compound.

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Comment: The limits of VOC& Aldehydes concentration were quoted from French building material VOC label pack 2 which updated on 19th April 2011.

2. Emission of CMR substances

With Reference To ISO 16000-3:2011, ISO 16000-6:2021, ISO 16000-9:2006 & ISO 16000-11:2006, CMR substances were detected by Automated Thermal Desorption-Gas Chromatography /Mass Spectrometric (ATD-GC/MS).

Parameters of the emission chamber test:

Chamber type: 0.06 m³ stainless steel chamber

Climatic conditions: 23°C, 50% R.H

Air exchange: 0.5 h⁻¹

Loading factor: 1 m²/m³

Sampling: Tenax TA & DNPH cartridge

The cut edges of submitted sample were sealed by Aluminum tape.

Testing compound	CAS No.	Requirement (ug/m ³)	Concentration (ug/m ³)
Trichloroethylene	79-01-6	<1.0	<1.0
Benzene	71-43-2	<1.0	<1.0
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	<1.0	<1.0
Dibutyl phthalate	84-74-2	<1.0	<1.0

Remark:

Detection limit =1.0 µg/m³

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3. VOC Emissions Class Label

AS per French VOC regulation as published on 25 March 2011 and on 13 May 2011, the label on the products includes a letter indicating the highest(worst) emission class of the listed individual substances and TVOC.

There are detailed rules on how the label has to look like. An example is given below. Minimum dimensions are 15mm x 30mm. the additional sentence below always shall be placed on the packaging in readable letter size.

Photo 1. Exemple orientative de l' étiquette en accord avec la classe correspondant au produit testé/ *Oriental example of the label corresponding to the tested sample according to its classification.*



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

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Appendix A: Sample Received Photo



The front of tested sample (Exposed surface)



The back of tested sample

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The sample received with package



The sample received with package

Revision:

Revision No.	Date	REVISION	Reviser	Reviewer
R0	/	Original Report Issue	/	/

*****End of Report*****