Test Report -Products



**Report No.:** 304132666 a 001 Page 1 of 5

Client: CHANGZHOU HUAREN DECORATIVE MATERIAL CO., LTD

Contact Information: 110 EAST CHANGHONG ROAD, HENGLIN TOWN, WUJIN DISTRICT,

CHANGZHOU CITY, JIANGSU PROVINCE, CHINA

Identification/ Model No(s): SPC FLOORING

Condition at delivery:

Test item complete and undamaged.

Sample Receiving date: 2025-06-19

**Testing Period:** 2025-06-20 – 2025-07-22

Place of testing: Chemical laboratory Suzhou

Test specification: Test result:

Customer's requirement:

1. Emission test for VOC and formaldehyde based on standards ISO 16000-

3,6 & 9

Labelling of construction and decoration products with their volatile pollutant emissions (VOC and formaldehyde) – final classification

A+

Legal requirements relating to the emission of CMR substances

Requirement met

For and on behalf of TÜV Rheinland (Suzhou)) Co., Ltd.

2025-07-24 Daisv J

Daisy Ju / Senior Project Engineer

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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'Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



**Test Report No.: 304132666 a 001** Page 2 of 5

Material list:

Item: SPC FLOORING

Material No.	Material	Color	Location	
M001	Synthetic material	Nature	Refer to photo	

### Test method(s)

DIN EN ISO 16000- Indoor air - Part 3: Determination of formaldehyde and other carbonyl com-pounds in

3: 2023-12 indoor air and test chamber air – Active sampling method (ISO 16000-3:2022)

DIN EN ISO 16000- Indoor air – Part 6: Determination of organic compounds (VVOC, VOC, SVOC) in

6: 2022-03 indoor and test chamber air by active sampling on sorbent tubes, thermal desorption

and gas chromatography using MS or MS FID (ISO 16000-6:2021)

DIN EN ISO 16000- Indoor air – Part 9: Determining the emissions of volatile organic compounds from

9: 2024-08 samples of building products and furnishings – Emission test (EN ISO 16000-9:2024)

### **Test chamber conditions**

Test chamber: Corresponding to ISO 16000-9

Test chamber volume: 1 m<sup>3</sup>

Temperature of supply air:  $23 \,^{\circ}\text{C} \pm 2 \,^{\circ}\text{C}$ Relative humidity of supply air:  $50 \,^{\circ}\text{M} \pm 5 \,^{\circ}\text{M}$ Exchange of air:  $0.5 \,^{\circ}\text{h}^{-1} \pm 0.1 \,^{\circ}\text{h}^{-1}$ Loading factor:  $0.4 \,^{\circ}\text{m}^{2}\text{/m}^{3}$ Inflow velocity:  $0.2 \,^{\circ}\text{m/s}$ 



Test Report No.: 304132666 a 001

Page 3 of 5

# 1. Labelling of construction and decoration products with their volatile pollutant emissions (VOC and formaldehyde) – final classification

The emission of the substances are classified according to a scale with 4 classes ranging from A+ to C, A+ indicating a very low emission level and C indicating a high level of emission. The emission level is indicated by the exposure concentration in µg/m³. Result of the tested sample after 28 days is shown below in table 1.

Table 1. Result

Parameter	CAS no.	Limit values of emission classes (μg/m³)			Concentration after 28 days	Emission Class	
		A+	Α	В	С	(µg/m³)	Olass
Formaldehyde	50-00-0	< 10	< 60	< 120	> 120	< 1	A+
Acetaldehyde	75-07-0	< 200	0 < 300 < 400		> 400	< 1	A+
Toluene	108-88-3	< 300	< 450	< 600	> 600	< 1	A+
Tetrachlorethylene	127-18-4	< 250	< 350	< 500	> 500	< 1	A+
Xylene	1330-20-7	< 200	< 300	< 400	> 400	< 1	A+
1,2,4- Trimethylbenzene	95-63-6	< 1000	< 1500	< 2000	> 2000	< 1	A+
1,4-Dichlorbenzene	106-46-7	< 60	< 90	< 120	> 120	< 1	A+
Ethylbenzene	100-41-4	< 750 🥒	< 1000	< 1500	> 1500	< 1	A+
2-Butoxyethanol	111-76-2	< 1000	< 1500	< 2000	> 2000	187	A+
Styrene	100-42-5	< 250	< 350	< 500	> 500	< 1	A+
Total VOC (TVOC) (C <sub>6</sub> – C <sub>16</sub> )		< 1000	< 1500	< 2000	> 2000	329	A+



**Test Report No.: 304132666 a 001** 

# 2. Legal requirements relating to the emission of CMR substances

Only the concentrations of the following CMR substances have been qualified:

Parameter	CAS no.	Legal limit (µg/m³)	Concentration (µg/m³)
Trichloroethylene	79-01-6	< 1	< 1
Benzene	71-43-2	<1	< 1
Bis phthalate (2-ethylhexyl) (DEHP)	117-81-7	<1	< 1
Dibutyl phthalate (DBP)	84-74-2	<1	< 1

### Abbreviation:

VOC = Volatile Organic Compound

TVOC = Total Volatile Organic Compound

n.d. = not detected

μg/m³ = micrograms per cubic meter

CMR = Carcinogenic; Mutagenic; Reprotoxic

n.d. = not detected (<  $1 \mu g/m^3$ )



Test Report No.: 304132666 a 001

Page 5 of 5

# Sample Photo(s)



M001

- END -



### General Terms and Conditions of Business of TÜV Rheinland in Greater China

- Scope
  These General Tarms and Conditions of Business of TÜV Rheinland in Greater China (GTCS) is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be (TÜV Rheinland The Creater China hereof refers to the regions within the termitories of China. The client thereof includes:

  a natural person capable to form laught brinding contracts under the applicable laws who concludes the contract contract of the contr

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

### Coming into effect and duration of contracts

- coming more enter and duration of contracts.

  The contract shall come thin effect for the agreed terms upon the gustation letter of TÜV. Rheimind or a separate contractual document being signed by both contracting parties, or upon the works nequested by the client being certified out by TÜV. Perfermed if the client hardus TÜV sold discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the respectate derivices. The contract term starts upon the coming into effect of the contract in accordance with article 3.1 if the contract produced for an extension of the contract term. He contract term starts upon the contract term. He contract term will be estimated by the term provided for in the contract term with the estimate of the contract term.

- Scope of services

  The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland etails, be the witten contrination or order by TÜV Rheinland shall be service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not lossed in the service description as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the organization of the service of the servi

- makerials and assembly of installators examined, nor for their use and application in accordance with regulation, unless hase question are expressly overed by the contract.

  In the case of impection work, TDV Rheinfand shall not be responsible for the accuracy or checking of the sidely programmes or safety regulations on which the impections are based, unless otherwise expressly agreed in writing, and the safety of the safety and the safety and the safety companies on which the impections are based, unless of the wise expressly agreed in writing. The services to be provided by TUV Rheinfand unless the contract of the agreed excitation expresses. The services to be provided by TUV Rheinfand unless the contract of the agreed excitation express the safety and an express of the safety and an expression of the safety and an
- lead to adverse consequences such as fault en superinguishment of feet payment. It may certification results, which shall not be formulately PTDV Pheninhand. The steep and the superinguishment of the steep control superin in the control. It he leaf the superinguishment of the steep control superin in the control. If he leaf the register places of sets to be designated by the client. The steep control superinguishment of the steep control supering

### Performance periods/dates

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- Performance periodicidate

  The contractually agreed periodicidate of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be bidding if being confirmed as binding by 10°V. Rheinland in writing. If Inding periodic of performance have been agreed, these periods shall not commence until the center has submitted all negreed documents to 10°V. Rheinland in writing, 10°V. The client is all extensions of agreed providicities of performance and caused by 10°V. Rheinland is writing and the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in periodicities of performance in accordance with clause 6.1 or has not dromes to migrate for the fulfilled his duties to cooperate in accordance with clause 6.1 or has not dromes to migrate for the 10°V. Rheinland is duties to cooperate in accordance with clause 6.1 or has not dromeston required for the 10°V. Rheinland is duties to cooperate in accordance with clause 6.1 or has not dromeston required for the 10°V. Rheinland is cuttied to postpore performance for a reasonable proof of time wrich 10°V. Rheinland is entitled to postpore performance for a reasonable proof of time wrich 10°V. Rheinland is entitled to postpore performance for a reasonable proof of time wrich 10°V. Rheinland is entitled to postpore performance for a reasonable proof of time wrich 10°V. Rheinland is entitled to postpore performance for a reasonable proof of time wrich 10°V. Rheinland is colleged to comply with legal, efficially prescribed and/or by the exceeds or reasonable decidence. It is the client is excently to agree on performance actives with 10°V. Rheinland with enable the client to comply with the legal and/or officially reserviched documents. TOV writing specifically satisfy that ensuring the deadlines is the contractual colligation of TOV.

### The client's obligation to cooperate

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

### a) it has required statutory qualifications;

- b) the product, service or management system to be certified complies with applingulations; and it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/ber/fizate if any.
- reportion interests any.

  The clear shall be array additional cost incurred on account of work having to be redone or being delayed as a result of labs, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

- If the scope of performance is not bid down in writing when the order is jaced, involving that be based or noted as study incurred. If no price is agreed in writing, involving that be made in accordance with the price is of TUV Rhenirand valid at the time of performance. Unless chemives agreed, work with be invoiced according to the progress of the work.

  The property of the property of the work. The property of the work was a study of the property of the work. The property of the property of the work.

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- All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

  Payments shall be made to the betax account of TUN Preliarnal as indicated on the invoice, stating the invoice and client numbers.

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- assets.

  Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

- The Vibriation data be entitled to demand appropriate advance appropriate TDV behaviors that be entitled to read to be set the beginning of a month if overheads and/or purchase costs have increased. In this case, TDV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date or which the rise in fees shall come into effect (period of notice of charges in fees.) If the size in fees remains under 5% exceeded 5% per contract prior the contraction of the co
- Only legally established and undisputed claims may be offset against claims by TÜV Rheinland. TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or orders/quictations reached with TÜV Rheinland.

- Any part of the work result ordered which is complete in itself may be presented by TÜV Pheriarian for acceptance as an instalment. The client shall be obliged to accept it immediately. If acceptance is required or contractually agreed in an individual case, this hall be deemed to have taken place two (2) weeks after completion and hardover of the work, unless the client relatives acceptance within this period calleng at least one of inchmental breend or contract by TÜV.
- revientance.
  The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV

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- Rhetriand.

  If acceptance is excluded according to the nature of the work performance of TÜV Rhetriand, the completion of the work shall take its place. During the follow-hould stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rhetriand and certificate is therefore to be withdraw (e.g. performance of surveillors caudito,) or if the client cancels or postpores a contineed sold take within two (2) weeks before the agreed date. TÜV Phinteriand is entitled to timedize during a tump-paur compression of 10% of the older Rhetriand has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
- Rhemain his recurrer or warming and the contract to accept services, TUV Rheinland shall also be an expensive to the plant and testate in the contract to accept services. TUV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expense if the services is not called within one year after the order has been placed. The client reserves the right to prove that the TUV Rheinland has incurred no damage whitelever or only considerably lower changes that the accept methods client yet whitelever or only considerably lower changes that the accept methods client yet.

- dentiality

  For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, esperities, information, date, test results, rejording the purpose of the purpose of the purpose of the purpose of the conditions, and the purpose of the conditions of
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- If was adicided this receiving party by a third party entitled to disclose this information, or the including party, and the including party, the including party and the including party and including party. The receiving party developed it listed, irrespective of disclosure by the disclosing party, the disclosing party, shall not be deemed to constitute conflicients information that remain the projectly of the disclosing party, the receiving charge party and the party of the disclosing party, and the party of the disclosing party, and the party and confirm the destination of the confidential information to the disclosing party, and the given party of the party and confidential information to the disclosing party, and the given party and the party of the confidential information to the disclosing party and the given party of the party of the confidential information to the disclosing party and the party of the party

## Copyrights and rights of use, publications

- Copyrights and rights of use, publications
  TUV Rheinland shall refah all exclusive copyrights in the reports, expert reportsiopinions, test reportsieseutis; results, accluditions, presentations dec. prepared by TUV Rheinland, unless chrewine agried by the parties in a separate agreement. As the owner of the copyrights, TUV Rheinland unless the results of individuals of all types of use the contract that the organization of the parties are separate agreement. For existing for all the contract cut less otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert scope of the contract cut less otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert scope of the contract for the contractually agreed purpose. The transfer of right of use of the generated work results regulated in clause 11.2 of the GTGs is subject to fall poyment of the remove client operated when the value of the contractual contraction of the contractual contract
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### Liability of TÜV Rheinland

- Liability of TÜV Rheinland
  Irrespocitive of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of continuctual deligations or loct, the liability of TÜV Rheinland for all dismages, losses are proposed to the continuous or the continuous ore

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- Offices of the client.

  The limitation periods for claims for damages shall be based on statutory provisions.

  None of the provisions of this article 12 changes the burden of proof to the disadvantage of the 12.6

### 13. Export control

When passing on the services provided by TÜV Rheinland or parts thereof to fluid parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control is supported by provision that there are no obstacles to the provision that there are no obstacles to be provision that there are no obstacles to be provision that there are no obstacles to the provision that there are no retreatment foreign trade legislators or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TÜV

Data protection notice

The client understands an analysies of the TDV. Resistand processes personal data forusing part not applied for the clienty for the clienty and the second protection of the purpose of the clienty for the purpose of the clienty for the purpose of the clienty for the purpose of processes the personal data that the client of codected or processes by self and that maker less that the collection of the purpose of th

### 15. Retention of test material and documentation

- ofton of test material and documentation. The lest amplies submitled by the client to TÜV. Rheirland for testing will be scrapped following testing or will be returned to the client at the client's appress. The only exceptions are test samples, with an are placed in storage on the basis of statutor, regulations or of another agreement with the client. Charges apply if the test samples are stored at the premises of TÜV. Rheirland. The cost of placing at test sample into storage will be disclosed to the client in the quotation. The cost of placing at test sample into storage will be disclosed to the client in the quotation. The cost of placing at test sample into storage will be disclosed to the client in the quotation. The cost of placing at the client in the quotation of the cost of the client in the place of the client in the cost of the client in the c
- and GS mark certificates.

  The costs of the handover and dispatch of the test samples for storage on the client's premises are bome by the client. TUV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

- Ination of the contract

  Notwittstanding clause 3.3 of the GTCB, TUV Rheinland and the client are entitled to terminate the contract that entirely or, in the case of services combined in one contract, each of the combined parts of the contract lend victually and independently of the contract client of the contract. The desired pool cases in clause but not finding to the following:

  a) the client does not immediately notly TUV Rheinland of changes in the conditions within the by the client diseases the certificate or conficient of the contract.

  b) the client disease the certificate or conflictation make of uses a client of the contract.

  c) in the event of award consecutive delays in payment (all seat three times); and do a result the payment client of any section interpretation, the Ly interitorial fract of grossly negligers of the contract of any section interpretation, the Ly interitorial fract of grossly negligers of the contract of any section interpretation, the Ly interitorial fract of grossly negligers of the contract of any section interpretation of the profit of the contract.

  c) In the event of any section interpretation of the profit of the contract of the c

- example during the performance of monitoring audite). Classe 16.3 applies accordingly.

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  The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the
- more onerous han could reasonably have been articipated at the time of the conclusion of the contract.

  (a) the continuot performance of its contractal uidues has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken only the property of the control which it could not reasonably have been expected to have taken (b) it could not reasonably have available or or section the vert of its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotials attenuative contractual terms which reasonably allow to overcome the consequences of the event.

  Where Clause 16.2 applies, but where the Parties have been unable to agree attenuable contractual terms as provided in that paragraph, the Party invoking this Clause is sufficed to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

### nvalidity, written form, place of jurisdiction and dispute resolution

- All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause of 1.7. In Should not or swerred of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that connect contracting parties shall replace the invalid provision in legal and commercial valid provision that connect consections of the content of the invalid provision in legal and commercial to the contraction of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the content of the content of the invalid provision in legal and commercial to the content of the c 192
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- valid provision that comes obsets to the content or use heavy purvision that comes obsets to the content or use heavy purvision. The content of the content and these terms and conditions shall be chosen following the rules as below.

  If VIV Rheinland in question is legally resigned and existing in the People's Republic of China, the contracting parties heavy gage that the contract and these terms and conditions shall be in the contracting parties heavy gage that the contract and these terms and conditions shall be in the contract and these terms and conditions shall be also with the contract and these terms and conditions shall be governed by the laws of Tatwan.

- governed by the laws or the recommendation of the properties of th