

TEST REPORT: 7191161337-CHM17-MA

Date: 27 APR 2017

Tel: +65 68851312 Fax: +65 67784301

Client's Ref:

Email: zhou.xiao@tuv-sud-psb.sg

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.



PSB Singapore

Choose certainty.
Add value.

SUBJECT

Evaluation of Product Sample

CLIENT

Latrade Pte Ltd
18 Mandai Road
#07-03
Singapore 729910

Attn: Mr Dewei Zhang

DESCRIPTION OF SAMPLE

Three pieces of samples labelled as follow were received on 28 Feb 2017:

Product Description: Decking Board Solid 140mm x 22mm (DBS14022)



Picture 1: Sample as received

DATE OF ANALYSIS

08 Apr 2017 – 20 Apr 2017



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®

METHOD OF TEST

The following emission tests were conducted according to ASTM D5116-10 – *Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products*, as reference.

1. Emission Test

- 1) Total Volatile Organic Compounds (TVOC) Emission Rate
- 2) Formaldehyde Emission Rate
- 3) 4-Phenylcyclohexene Emission Rate
- 4) Total Phthalates Emission

REMARKS

Product Loading Ratio for the “Decking Board Solid 140mm x 22mm (DBS14022)” sample was 0.41.

Emission Test Condition

- 1) Chamber Volume: about 1m³
- 2) Temperature: 23°C
- 3) Relative Humidity: 50%
- 4) Air Exchange Rate: n=1 (air change rate per hour in the chamber)
- 5) Chamber Loading Ratio: 0.4-1.0 m²/m³ (total exposed surface area of the test specimen divided by the net air volume of the emission test chamber)
- 6) Air Velocity: 0.1 m/s to 0.3 m/s (over the surface of the test specimen)

RESULTS

Table 1. Emission Rate Test Result

Test	Test Result (After 168 hours)	Criteria for Singapore Green Building Council	Inferred Result
TVOC*	0.14 mg per m ² per hour	0.50 mg per m ² per hour or less	Pass
Formaldehyde	<0.005 mg per m ² per hour	0.02 mg per m ² per hour or less	Pass
4-Phenylcyclohexene	< 0.002 mg/m ² per hour	0.0065 mg per m ² per hour or less	Pass
Total Phthalates	< 0.005 mg/m ³	< 0.01 mg per m ³	Pass

* TVOC is the sum of volatile organic compounds sampled on the sorbent tube between n-hexane (C6) and n-hexadecane (C16), and quantified by converting the total area of the chromatogram in that region to Toluene concentration equivalent.



MS MARIANA AHMAD
CHEMIST



DR XIAO ZHOU
PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

TEST REPORT: 7191161337-CHM17-MA
27 APR 2017



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

