

TEST REPORT: 7191021048-CHM11-LYP

Date: 21 DEC 2011

Tel: +65 68851346 Fax: +65 67732912

Client's Ref: -

Email: Yin-Pheng.LEONG@tuv-sud-psb.sg



PSB Singapore

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.

SUBJECT

Fungus Resistance Test

Choose certainty.
Add value.

CLIENT

BA Furnishings Pte Ltd
10 Admiralty Street
#06-30 North Link Building
Singapore 757695

Attn : Mr. John Goh

SAMPLE SUBMISSION DATE/ TEST DATE

18 Nov 2011/ 18 Nov 2011

DESCRIPTION OF SAMPLE

One sample of Sound Innovation Universal SIU-BF akustic wall/ceiling panel consisting of 3 pieces each of dimensions 100 mm x 75 mm x 18 mm thick was submitted.

This sample was described as follows:

"Sound Innovation Universal SIU-BF akustic wall/ceiling panel, fire-resistant and moisture-resistant Medium Density Fiber board laminated with high pressure laminate and black acoustic tissue at the back"

METHOD OF TEST

The evaluation was conducted in accordance to the MIL-STD-810G Method 508.6 Procedure 1

Test fungi used : *Aspergillus niger* (ATCC 9642)
Aspergillus flavus (ATCC 9643)
Aspergillus versicolor (ATCC 11730)
Penicillium funiculosum (ATCC 11797)
Chaetomium globosum (ATCC 6205)

Incubation conditions : Temperature of $30 \pm 1^\circ\text{C}$ and relative humidity of $95 \pm 5\%$

Incubation period : 28 days

Tests were performed in triplicate.



TÜV SÜD PSB

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

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

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TUV®



METHOD OF TEST (Cont'd)

Two types of control tests were carried out :

1. Verification of viability of spore suspensions of test-fungi

Sterile potato dextrose agar plates were inoculated with 0.2 ml of spore suspension of each of the test fungi. The inoculated plates were then incubated at $30 \pm 1^\circ\text{C}$ for 10 days.

2. Verification of suitability of test chamber environment to support fungal growth

Two test cotton strips each of 10 cm in length, treated with the mineral solution as specified in the test procedure were placed close to the test item within the chamber.

These strips were installed, inoculated and incubated along with the test items under the same incubation conditions to ensure that proper conditions were present in the incubation chamber to promote fungal growth.

The intensity of fungal growth on the test items was rated as follows :

Amount of Growth	Rating	Comments
None	0	Substrate is devoid of microbial growth
Trace	1	Scattered, sparse or very restricted microbial growth
Light	2	Intermittent infestations or loosely spread microbial colonies on substrate surface. Includes continuous filamentous growth extending over the entire surface, but underlying surfaces are still visible.
Medium	3	Substantial amount of microbial growth. Substrate may exhibit visible structural change.
Heavy	4	Massive microbial growth. Substrate decomposed or rapidly deteriorating

RESULTS

I Pretest Check

Visual examination of test items prior to inoculation with test-fungi

The surfaces of the test items were observed. No abnormality was noted on the test items.

II Control Tests

II.1 Viability of spore suspensions of test-fungi

At the end of incubation period of 10 days at temperature of $30 \pm 1^\circ\text{C}$, copious growth of each test organism was noted on the entire surface of the respective inoculated potato dextrose agar plate



RESULTS (Cont'd)

II.2 Verification of suitability of chamber environment to support fungal growth

After 7 days of incubation, the two control cotton strips had fungal growth on their surfaces each covering about 90% of surface area. At the end of the test period of 28 days, fungal growth covering almost the entire surface area of the control cotton strips were observed.

III. **Fungus Test**

Visual observation of test items for extent of fungal growth

After 28 days of incubation at the specified temperature and relative humidity, the intensity of fungal growth on the surfaces of the test items were observed and rated as follows:

Test Item	Triplicates	Amount of Fungal Growth	Rating
Sound Innovation Universal SIU-BF akustic wall/ceiling panel	# 1	None	0
	# 2	None	0
	# 3	None	0

Remarks :

The above test results related to the sample as received.

The sample was found to be resistant to the test fungi used.

MS AW HWEE YING
TECHNICAL EXECUTIVE

MRS KAM-LEONG YIN PHENG
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS



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

