

Classification Report No. 7191054407-MEC13/3-LGJ
dated 19 Apr 2013



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.

**Choose certainty.
Add value.**

CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH EN 13501-1:2007 +A1: 2009

Sponsor :

Greenlam Asia Pacific Pte Ltd
11 Sungei Kadut Crescent
Singapore 728683

Prepared by:

TÜV SÜD PSB Pte Ltd

Product name:

“Greenlam SafeguardPlus Compact Laminates” High
Pressure Laminate

This classification report consists of five pages and may only be used or reproduced in its entirety.



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®



1. Introduction

This classification report defines the classification assigned to “Greenlam SafeguardPlus Compact Laminates” High Pressure Laminate in accordance with the procedures given in EN 13501-1: 2007+A1:2009.

2. Details of classified product

2.1. End use application

The product is “Greenlam SafeguardPlus Compact Laminates” High Pressure Laminate used for partition boards, toilet cubicles and bench tops.

2.2. Product description

The product is fully described in the test reports in support of this classification listed in clause 3.1

3. Test reports and results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report reference	Test method
TÜV SÜD PSB Pte Ltd	Greenlam Asia Pacific Pte Ltd	7191054407-MEC13/1-JV	EN 13823: 2010
TÜV SÜD PSB Pte Ltd	Greenlam Asia Pacific Pte Ltd	7191054407-MEC13/2-JV	EN ISO 11925-2: 2010

3.2. Results

Test method	Parameters	Number of tests	Test results	
			Measured parameters (mean values)	Compliance parameters for B-s1,d0
EN 13823	FIGRA _{0.2MJ} (W/s)	4	46.1	≤ 120
	FIGRA _{0.4MJ} (W/s)		29.7	
	THR _{600s} (MJ)		2.4	≤ 7.5
	LFS to edge (Yes / No)		No	No
	SMOGRA (m ² /s ²)		*N.A	≤ 30
	TSP _{600s} (m ²)		41.3	≤ 50
	Flaming Droplets / Particles (sec)		No	No, within 600s
EN ISO 11925-2	Vertical flame spread (mm)	6	10	Fs ≤ 150mm within 60s

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with clause 11.8.1 of EN 13501-1: 2007 +A1: 2009.

4.2. Classification

The product, "Greenlam SafeguardPlus Compact Laminates" High Pressure Laminate, in relation to its reaction to fire behaviour meets the requirements to be classified as **B**.

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets / particles is: **d0**

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Therefore, the classification of the "Greenlam SafeguardPlus Compact Laminates" High Pressure Laminate, in accordance with EN 13501-1: 2007 +A1:2009 is:

Reaction to fire classification: B-s1, d0





4.3. End use application and product parameter


The classification in clause 4.2 only applies to the product described in clause 2 of this report and is only valid for the following parameters and applications:

- Partition Boards
- Toilet Cubicles
- Bench Tops

5.0 Limitation

This classification document does not represent type approval or certification of the product.


Leong Gene-Jhou
Senior Associate Engineer


Joseph Chng
Assistant Vice President
(Fire Property)
Mechanical Centre



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

