

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



PSB Singapore

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**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

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## 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 <sub>0.2MJ</sub> (W/s)	4	46.1	≤ 120
	FIGRA <sub>0.4MJ</sub> (W/s)		29.7	
	THR <sub>600s</sub> (MJ)		2.4	≤ 7.5
	LFS to edge (Yes / No)		No	No
	SMOGR <sub>A</sub> (m <sup>2</sup> /s <sup>2</sup> )		*N.A	≤ 30
	TSP <sub>600s</sub> (m <sup>2</sup> )		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>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

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



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July 2011

