# Test Report No. 7191169901-MEC17/B3-YWA dated 03 Oct 2017

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## **SUBJECT:**

Flammability test on "GRM Biowood Profile with fire retardant" material submitted by PT. Latrade Batam Indonesia on 25 Aug 2017.

## **TESTED FOR:**

PT. Latrade Batam Indonesia Latrade Industrial Park, Blk E3 Jalan Sei Binti, Tanjung Uncang 29422 Batam Indonesia

### **DATE OF TEST:**

26 Sep 2017

### **PURPOSE OF TEST:**

Based on ASTM D 635-14 - Standard Test Method for "Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position."

The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10 Tuas Avenue 10, Singapore 639134.









LA-2007-0380-A L LA-2007-0381-F L LA-2007-0382-B L LA-2007-0383-G L

LA-2007-0384-G LA-2007-0385-E LA-2007-0386-C LA-2010-0464-D The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council. Inspections/Calibrations/Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our inspection bodyllaboratory.

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TUV®

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# **DESCRIPTION OF SAMPLES:**

20 pieces of specimen, said to be "GRM Biowood Profile with fire retardant" (16mm thick) material comprising of Wood Plastic Composite, each of nominal test size of 125mm x 13mm were received. The bulk density of the sample was found to be approximately 1220kg/m<sup>3</sup>.

## **RESULTS:**

Description	Unit	Result
Flammability test	-	Horizontal burning test
1. No of specimens.	1 -	10
2. Specimen thickness	mm	16
3. Flame front passed 25mm mark	sec	0
4. Flame front passed 100mm mark	sec	0
5. Burnt length	mm	N.A
6. Average elapsed flaming time between 25mm and 100mm mark	sec	N.A
7. Average burning rate	mm/min	N.A
8. Observation		No flaming was observed after removal of the burner.
Classification requirements	A material classed HB shall:  a) There is no visible signs of combustion after the ignition source is removed, or b) The flame front does not pass the 25mm reference mark, or c) The flame front passes the 25mm reference mark but does not reach the 100mm reference mark, or d) The flame front reaches the 100mm reference mark and the linear burning rate does note exceed 40 mm/min for specimens having a thickness between 3 and 13mm or 75mm mm/min for specimens having a thickness less than 3mm.	

# **CONCLUSION:**

The results of the sample tested <u>meet the requirements of ASTM D 635-14 for</u> classification as HB.

Ong Klan Huat Senior Associate Engineer Chan Lung Toa
Product Manager
Fire Property
Mechanical

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