

# TEST REPORT



Singapore Institute  
of Standards and  
Industrial Research

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Your Ref: **LB/637/1/90**

Date: **1990-01-30**

Our Ref: **G141418/LNB**

Please quote our ref. no. in reply

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**Subject:** Non-combustibility test on plasterglass decorator glassfibre reinforced gypsum plaster plain sheet submitted by Landbridge Trading and Transport Agencies on 1990-01-12

**Tested for:** Plasterglass Decorator  
No. 59-F Jalan Bongkaran  
Surabaya (60161)  
Indonesia

**Purpose of Test:** To determine whether the material is non-combustible when it is exposed to the conditions of the test specified in British Standard 476 Part 4 : 1970 "Fire Test on Building Materials and Structures - Non combustibility Test for Materials"

**Material Sent For Test:** 6 pieces of plasterglass decorator glassfibre reinforced gypsum plaster plain sheets, each of nominal size of 225 mm x 225 mm x 7.9 (thickness) were received. The density of the sample was found to be 980 kg/m<sup>3</sup>.

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**Sample Preparation:**

6 specimens were prepared. 36 pieces, each of size 40 mm x 40 mm x 7.9 mm (thickness) were cut from the sample received. Each specimen consisted of 6 pieces of the sample stacked and binded together with steel wires to give the required test specimen size of 40 mm x 40 mm x 50 mm (thickness)

**Test Procedure:**

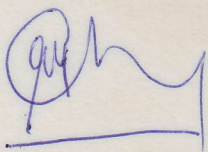
Specimens were exposed to the specified heating conditions ( $750 \pm 10^\circ\text{C}$ ) in a furnace conforming to Clause 6 and illustrated in Figure 1, 2 and 3 of the Standard. The furnace was heated and its temperature stabilized at  $750 \pm 10^\circ\text{C}$  for more than 10 minutes. One specimen was then inserted in the furnace, the whole operation was performed in less than 5 seconds. The temperature of the specimens and the furnace were measured by two separate Chromel/Alumel Thermocouples continuously for 20 minutes on the chart of a recorder. The flaming time of the specimen was determined by a stop watch. The procedure was repeated twice for two other specimens, one at each time.

**Results:**

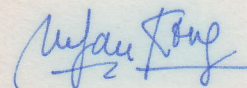
Results of the tests on the three specimens are tabulated in Table 1.

**Conclusion:**

A non-combustibility test for materials in accordance with British Standard 476 : Part 4 1970 has been performed on the material as described in this report and the classification of the materials are non-combustible.



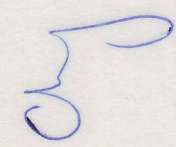
**JOSEPH CHNG**  
**TESTING OFFICER**



**LAU KEONG ONG**  
**ENGINEER**  
**MECHANICAL TECHNOLOGY DEPARTMENT**

**RESULTS:****TABLE 1**

Sample	Specimen	Time of Continuous Flaming (second)	Temperature Rise °C		Time of Continuous Flaming	Requirements for Non-Combustibility		Classification
			Furnace	Sample		Furnace	Sample	
Plasterglass Decorator Glassfibre Reinforced Gypsum Plaster Plain Sheet	1	0	2	0	Not exceeding 10 seconds	Not exceeding 50 deg. C.	Not exceeding 50 deg. C.	Non-combustible
	2	0	0	0				Non-combustible
	3	0	9	0				Non-combustible


  
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