

**Test Report No. 7191285005-MEC22-PGZ**  
dated 20 Jun 2022



PSB Singapore

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**SUBJECT:**

Non-combustibility test on Brand: "UAC", Model: "Superflex", fibre cement flat sheets submitted by UAC Berhad on 17 May 2022.

**TESTED FOR:**

UAC BHD.  
10<sup>TH</sup> Floor, Menara uac  
No.12 Jalan Pju 7/5  
Mutiara Damansara  
Petaling Jaya  
Selangor, 47800

**DATE OF TEST:**

17 Jun 2022

**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".

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 LA-2007-0386-C  
LA-2007-0381-F LA-2010-0464-D  
LA-2007-0382-B LA-2018-0702-B  
LA-2007-0383-G LA-2018-0703-G  
LA-2007-0384-G LA-2020-0747-L  
LA-2007-0385-E

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 body/laboratory.

Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
15 International Business Park  
TÜV SÜD @ IBP  
Singapore 609937

Phone : +65-6778 7777  
E-mail: info.sg@tuvsud.com  
<https://www.tuvsud.com/en-sg>  
Co. Reg : 199002667R

Regional Head Office:  
TÜV SÜD Asia Pacific Pte. Ltd.  
15 International Business Park  
TÜV SÜD @ IBP  
Singapore 609937  
TUV®



**DESCRIPTION OF SPECIMENS:**

Forty-eight pieces of specimen, said to be Brand: "UAC", Model: "Superflex", fibre cement flat sheets, each of nominal test size of 40mm x 40mm were received. The thickness, mass per unit area and density of the specimen were measured to be 6.2mm, 8.6kg/m<sup>2</sup> and 1391.3kg/m<sup>3</sup> respectively. Six blocks of specimen, each of nominal test size of 40mm x 40mm x 50mm thickness were prepared.

**Details of the product, as provided by the sponsor of test, are as follows:**

Brand	UAC
Model reference	Superflex
Generic product name	Fibre Cement Flat Sheets
Material composition	Cement: 30.0 – 40.0% Silica: 50.0 – 60.0% Alumina: 1.0 – 4.0% Red Pigment: 0.0 – 0.4% Pulp: 6.0 – 8.0%
Country of Origin	Malaysia
Nominal thickness	6mm
Nominal mass per unit area	9kg/m <sup>2</sup>
Nominal density	1.33-1.42 g/cm <sup>3</sup>
Fire retardant	-



**TEST PROCEDURE:**

Specimens were conditioned in a ventilated oven at  $60 \pm 5^\circ\text{C}$  for 24 h, and cooled to ambient temperature in a desiccator containing anhydrous calcium chloride prior to testing.

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:**

Description	Specimen 1	Specimen 2	Specimen 3	Requirements
Time of continuous flaming (sec.)	0	0	0	<10
Temperature rise of furnace above initial furnace temperature ( $^\circ\text{C}$ )	31	27	33	<50
Temperature rise of sample above initial furnace temperature ( $^\circ\text{C}$ )	20	22	23	<50
Classification	Non-Combustible	Non-Combustible	Non-Combustible	-

**CONCLUSION:**

1. 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 sample is Non-Combustible.
2. Photograph of specimen are shown in Plate 1.

  
Poh Guo Zheng  
Engineer

  
Chan Lung Toa  
Assistant Vice President  
Fire Testing  
Mechanical Centre

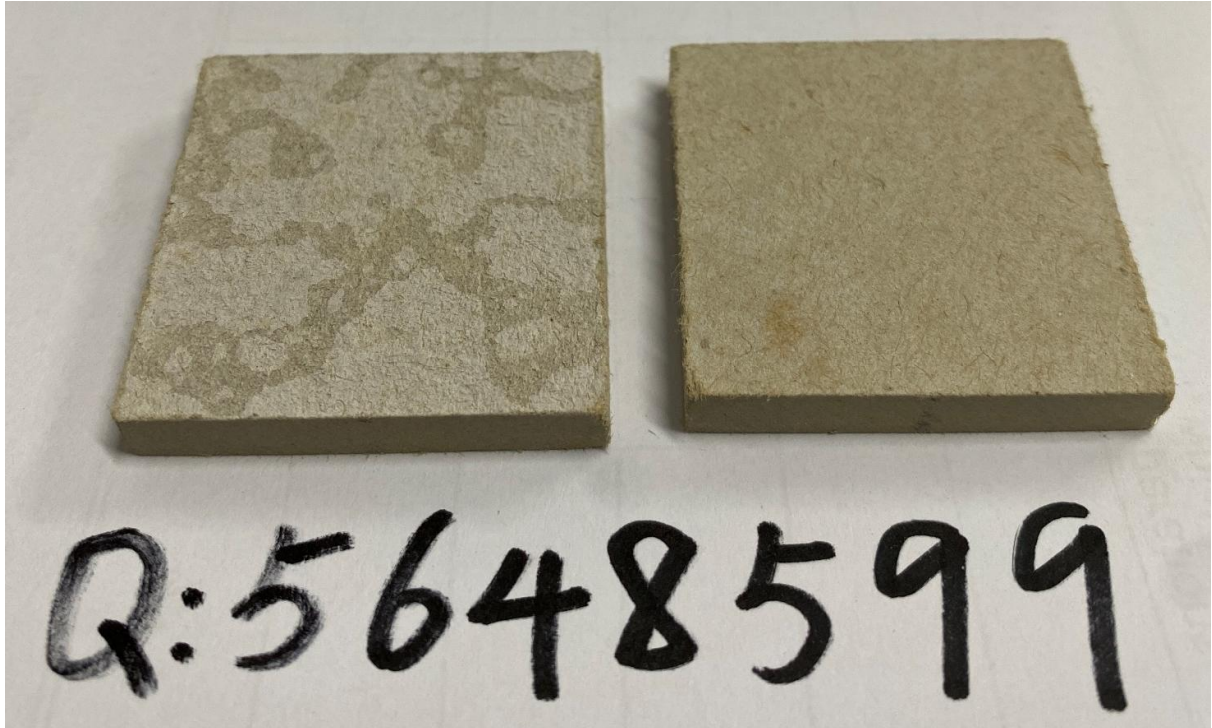


Plate 1: Photograph of specimen



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Effective 26 January 2021

