

Test Report No. 7191112998-MEC15/5-YWA
dated 23 Jun 2015



PSB Singapore

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SUBJECT:

Non-combustibility test on "EASTW GGBS" Lightweight precast panel material submitted by EASTW Engineering Pte Ltd on 12 May 2015.

TESTED FOR:

EASTW Engineering Pte Ltd
Blk 1039 Eunos Ave 3
#01-112
Singapore 409846

PERIOD OF TEST:

28 May 2015 and 02 Jun 2015

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-2007-0381-F
LA-2007-0382-B
LA-2007-0382-B-1
LA-2007-0383-G
LA-2007-0383-G-1

LA-2007-0384-G
LA-2007-0385-E
LA-2007-0386-C
LA-2010-0464-D
FFT-2013-0002-A

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.

Laboratory:
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3 Science Park Drive, #04-01/05
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TUV®

DESCRIPTION OF SAMPLES:

Six blocks of specimen, said to be "EASTW GGBS" (550kg/m^3) Lightweight precast panel material comprising of Fly ash concrete, each of nominal test size of 40mm x 40mm x 50mm thickness were submitted. The bulk density of the specimen was found to be approximately 581kg/m^3 .

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:

Description	Specimen 1	Specimen 2	Specimen 3	Requirements
Time of continuous flaming (sec.)	0	0	0	<10
Temperature rise of furnace ($^\circ\text{C}$)	2	10	24	<50
Temperature rise of sample ($^\circ\text{C}$)	0	0	0	<50
Classification	Non-combustible	Non-combustible	Non-combustible	-

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 sample is non-combustible.


Ye Wint Aung
Associate Engineer


Ong Kian Huat
Senior Associate Engineer
(Fire Property)
Mechanical Centre

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July 2011

