## Fire Test Report

TÜV SÜD PSS Pte Lid - 1 Science Park Drive, Singapore 118221



EASTW Engineering Pte Ltd. 1039 Eunos Avenue 3 #01-112 Singapore 409846

Your reference / letter of

Our reference / name

Fax extension

Data

Page

7191112998-MEC15-4B-IHN

6865 3776 mail.hassan@tuv-sud-osb.sq 6862 1433

01 Sep 2015

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Fire resistance test on a non-loadbearing solid core wall panel system with stiffener column conducted on 28 Aug 2015

With regards to the above mentioned test, the nominally 155mm thick wall with an overall size of 3000mm (wide) x 2800mm (high), satisfied requirement of BS 476 Part 22: 1987 for the periods stated below:

Integrity

260 minutes

Insulation

175 minutes

The wall was constructed with 145mm thick solid core panels and both sides of the wall facing were skim coated to a nominal thickness of 5mm. A stiffener column of 150mm wide x 150mm wall depth was vertically erected towards the east end of the wall.

Please do contact me via telephone (office) or alternatively you may email me if you need any clarifications.

Regards

Yours faithfully,

smail Bin Hassan Engineer Fire Property Mechanical

Please note that the **Fire Property** is located at: TÜV SÜD PSB Pte. Ltd.
No. 10, Tuas Avenue 10,
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TÜV SÜD PSB Pte Ltd

1 Science Park Drive Singapore 118221 Reg. No.: 199002667R

## Summary of Fire Resistance

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Thickines	Pane1	Achieves 2 Hours			
90mm	Hollow				
100mm	Solid	2 Hours			
150mm	Solid	4 Hours			

## Fire Resistance Test

EASTW panel has inorganic non-combustible materials and have absolute incombustibility. Therefore the materials are not fire hazardus.

Good Fire Resistance

GGBS LIGHTWEIGHT
STIFFENER WITH
150MM PANEL FULL
SYSTEM TESTING





GGBS LIGHTWEIGHT
STIFFENER WITH
100MM PANEL FULL
SYSTEM TESTING





GGBS 90MM
LIGHTWEIGHT
HOLLOW PANEL
TESTING





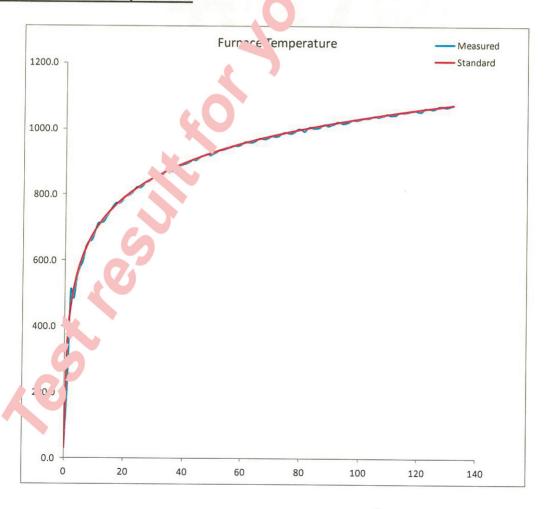
## Test Report No. 7191115422-MEC15-IHN dated 06 July 2015



Table 1: Comparison of area under the curve

Time		Temperature rise (°C)		Area under curve (°C min)		Standard tolerance
(min)	Standard	Furnace	Standard	Furnace	(0, )	±%
5.0	556.4	548.2	2188.1	2075.7	5.1	
10.0	658.4	656.7	5402.7	5267.9	-2.5	15.0
15.0	718.6	718.6	3602.0	3599.1	-0.1	
30.0	821.8	823.3	15692.7	15694.3	0.0	10.0
35.0	844.8	843.1	4317.9	4312 0	-0.1	
60.0	925.3	925.4	27284.1	27249.4	-0.1	
120.0	1029.0	1024.9	88071.3	87ะ 1.6	-0.1	0.5

Figure 1: Furnace Temperature



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