TEST REPORT

REPORT NUMBER: 160920003SHF-BP-1

ORIGINAL ISSUE DATE: 2017/1/11

EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai

Plant 7, No. 6958 Daye Road, Fengxian District, Shanghai, China

RENDERED TO

FOSHAN VANCO BUILDING MATERIALS CO.,LTD

SHUNDE TECHNOLOGY&INNOVATION CENTER,GAOLI,RONGGUI SHUNDE DISTRICT, FOSHAN CITY, GUANGDONG PR. CHINA

PRODUCT EVALUATED

Fire-proof ACP

EVALUATION PROPERTY

BS 476: Part 6: 1998 + A1: 2009 "Fire tests on building materials and structures Part 6: Method of test for fire propagation for products"

Report Template Revision Date: 2016/9/1

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Applicant:	**FOSHAN VANCO BUILDING MATERIALS CO.,LTD**
Applicant Address:	**SHUNDE TECHNOLOGY&INNOVATION CENTER,GAOLI,RONGGUI SHUNDE DISTRICT, FOSHAN CITY, GUANGDONG PR. CHINA**
Attn:	**Miss Olivia Yang**

Sample information:

Product:	Fire-proof ACP
Model:	4mm(0.5mm)
Specification:	/
Sample Quantity:	6 pieces
Sample ID:	S160920003SHF-001~006
Date Received:	2016/11/28
Date Test Conducted:	2016/12/10

Conclusion:

For details refer to attached page(s).

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

Test Items, Method and Results:

1.1 Procedure

Prior to test, the specimens were conditioned in accordance with paragraph 4.4 of the standard.

Three specimens, backed with calcium silicate board, were tested with the PVDF coating face exposed to the specified heating conditions, in an apparatus conforming to paragraph 5 and illustrated in Figures 1 to 3 of the Standard.

The calibration and test procedures were as defined in paragraphs 8 and 9, and appendix B clause (b) respectively, of the specification. The apparatus was calibrated prior to test and the actual calibration curve obtained is shown in Appendix A of this report.

The mean temperature rise above ambient obtained from three specimens is also shown in Figure 1 (i.e. with the actual calibration curve). The mean temperature readings for the material and the calibration curve were obtained at the following intervals from the start of the test: at 1/2 minute intervals up to 3 minutes, at 1 minute intervals from 4 to 10 minutes, and 2 minutes intervals from 12 to 20 minutes.

From these readings, the index of performance for the material was determined as follows:

$$s = \sum_{t=0.5}^{t=3} \frac{\Theta_s - \Theta_c}{10t} \qquad s_2 = \sum_{t=4}^{t=10} \frac{\Theta_s - \Theta_c}{10t} \qquad s_3 = \sum_{t=12}^{t=20} \frac{\Theta_s - \Theta_c}{10t}$$

S=s1+s2+s3

where S = Index of performance for each of the specimens tested and s_1, s_2 and s_3 are sub-indices

t = Time in minutes from the origin at which readings are taken.

Θ_s = Temperature rise in deg. C for the specimen at time, t

Θ_c = Temperature rise in deg. C for the calibration sheet at time, t

In computations only the positive value of $\frac{\Theta_s - \Theta_c}{10t}$ was used.

1.2 Results:

The following test results were obtained for each specimen tested:

Specimen	Sub-Indices			Index of performance
	s_1	s_2	s_3	S
A	0.0	0.0	0.1	0.1
B	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0

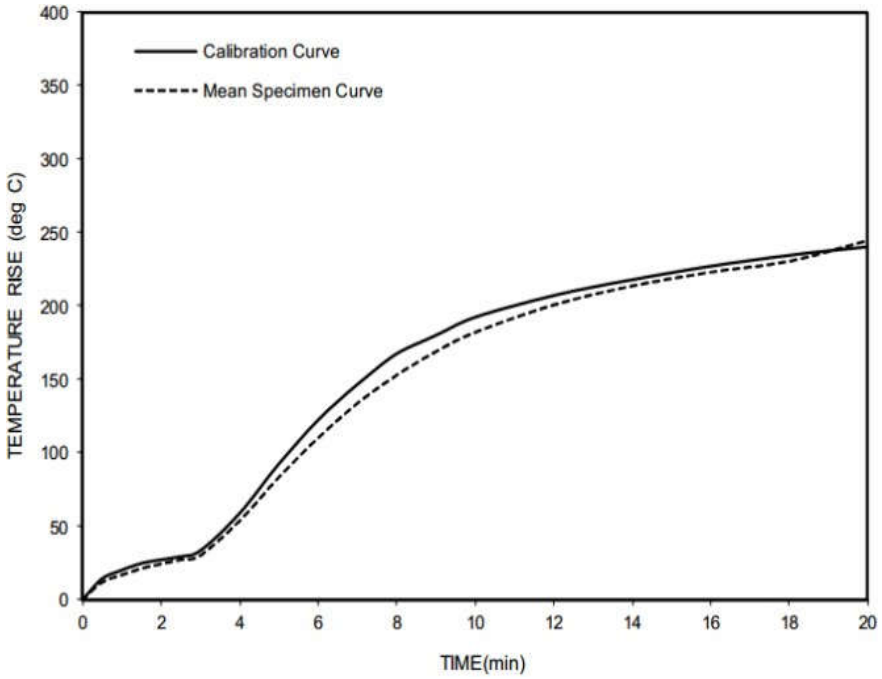
The test results obtained, as an average of the 3 samples tested are as follows:

Index of overall performance, I (Fire propagation index)	=	0.0
Sub-index, i_1	=	0.0
Sub-index, i_2	=	0.0
Sub-index, i_3	=	0.0

Remarks: The test results relate only to the behaviour of the test .specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Note: This test was conducted at the external approved facility, located at Singapore.

Appendix A： Calibration Curves with Mean Specimen Curve



Comparison of Mean Specimen and Calibration Curves

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Approved by:

Name: Sun Sun	Name: Harrison Li	Name: Timothy Li
Title: Approver	Title: Reviewer	Title: Project Engineer

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The End of Report

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