

## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 1 of 7

CUSTOMER NAME:

ADDRESS:

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : COATED BLOCKOUT 440GR  
 Product Specification : 250X250 36X36 440GSM  
 Product or Lot No. : GLP013-440B1  
 Buyer :  
 Material and Mark : #1  
 Other Information : GLP013-440B1/ COATED BLOCKOUT 440GR  
 Date of Receipt : Nov 10, 2017  
 Testing Start Date : Nov 10, 2017  
 Testing End Date : Dec 01, 2017  
 Test result(s) : For further details, please refer to the following page(s)

Signed for  
 SGS-CSTC Standards Technical  
 Services (Shanghai) Co., Ltd.

*Zano Lai*

Zano Lai  
 Authorized signatory



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 533414

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
 Testing Center

No. 69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
 t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 2 of 7

### Test Item:

To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

### I. Test conducted

This test was conducted as per DIN 4102-15:1990 DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2.

Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials

### II. Sample details

Name	PVC BANNER
Color / Density	White / 437g/m <sup>2</sup>
Size of sample	1000mmx190mm & 190mmx90mm

### Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.





## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 3 of 7

### III. Test results

1) "Brandschacht" Test according to DIN 4102-15 & 16

Exposed surface: The front face

Results of "Brandschacht" Test (part 1)				
Line No.	Unit	Test assemblies No.		
		Lengthwise	Widthwise	
1	Specimen fixings according to DIN 4102 part 15, table	/	/	
2	Max. flame height above lower sample edge;	cm	50	50
3	Time <sup>1)</sup>	min:s	0:26	0:31
4	<u>Melting/burning through</u> Time <sup>1)</sup>	min:s	0:07	0:09
5	<u>Back of specimen</u> Flaming/glowing, Time <sup>1)</sup>	min:s	0:07	0:09
6	Discolouring, Time <sup>1)</sup>	min:s	0:08	0:10
7	<u>Burning droplets</u> Begin 1)	min:s	No	No
	<u>Amount</u>	/	/	/
8	Specimen material falling off in separate droplets	/	/	/
9	Specimen material falling off continuously	/	/	/

## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 4 of 7

Results of "Brandschacht" Test (part 2)			
Line No.	Unit	Test assemblies No.	
		Lengthwise	Widthwise
	<u>Burning parts</u>	No	No
10	Begin 1)	/	/
11	Parts of sample falling off separately	/	/
12	Parts of sample falling off continuously	/	/
13	Duration of continued combustion on mesh base (max.)	No	No
	<u>Burner flame impairment by dripping/falling material</u>	No	No
14	Time <sup>1)</sup>	/	/
	<u>Premature ending of test</u>	/	/
15	End of burning at specimen <sup>1)</sup>	/	/
16	Time when test terminated (if applicable) <sup>1)</sup>	/	/
	<u>Burning after end of test</u>	No	No
17	Duration	/	/
18	Number of specimens	/	/
19	Front of specimen	/	/
20	Back of specimen	/	/
21	Height of flame	/	/
	<u>Glowing after end of test</u>	No	No
22	Duration	/	/
23	Number of specimens	/	/
24	Front of specimen	/	/
25	Back of specimen	/	/
26	Top half of specimen	/	/
27	Bottom half of specimen	/	/

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 533417

SGS Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319  
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgsgroup.com.cn  
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com



## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 5 of 7

Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test assemblies No.			
			Lengthwise		Widthwise	
28	<u>Residual length</u>	cm				
	Single results		58	57	58	56
			56	57	56	57
29	Average of the single results	cm	57		56.75	
30	<u>Smoke temperature</u>	°C				
	Max. of average		147		146	
			10:00		10:00	
31	Time <sup>1)</sup>	min:s				

Note: <sup>1)</sup> time from start of testing

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Flame application: [ √ ] bottom edge ignition, [ ] surface ignition

[ √ ] Lengthwise (if applicable)

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	17	16	17	16
Max. flame height (cm)	10	11	11	12	11
End of afterflaming (s)	15	17	16	17	16
End of afterglowing (s)	15	17	16	17	16
Molten dripping	No	No	No	No	No
Smoke developments (visual impression)	Slight				



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SHML 533418

SGS Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319  
中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 6 of 7

[ √ ] Widthwise (if applicable)

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	17	16	17	18	17
Max. flame height (cm)	12	10	10	11	11
End of afterflaming (s)	17	16	17	18	17
End of afterglowing (s)	17	16	17	18	17
Molten dripping	No	No	No	No	No
Smoke developments (visual impression)	Slight				

All timings are from start of testing

**Criteria for classification for Class B1 (DIN 4102-1 Clause 6.1.2)**

All materials, except flooring, may be classed as B1 materials if they met,

a) Pass DIN 4102-16 "brandschacht" test if

- 1) The mean value for the residual length of each specimen is at least 15 cm, and no individual values are lower than 0 cm;
- 2) The mean effluent temperature does not exceed 200°C in any test;
- 3) The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1 Clause 6.2.3 Ignitability Test if,

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

### STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**SHML 533419**

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319

t (86-21) 61196300

f (86-21) 68183122/68183920

www.sgs.com.cn

中国·上海·浦东康桥东路1159弄69号

邮编: 201319

t (86-21) 61196300

f (86-21) 68183122/68183920

e sgs.china@sgs.com



## TEST REPORT

No. : SHIN1411047188PS

Date : Dec 16, 2017

Page: 7 of 7

**Conclusion:** The tested sample meets the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

### Photo Appendix:



- The test was performed by SGS internal laboratory.

\*\*\*\*\* End of report\*\*\*\*\*

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN.Doccheck@sgs.com



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**SHML 533420**

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319

中国·上海·浦东康桥东路1159弄69号 邮编: 201319

t(86-21)61196300

t(86-21)61196300

f(86-21)68183122/68183920

f(86-21)68183122/68183920

[www.sgs.com.cn](http://www.sgs.com.cn)

e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)