

No. AJD201101758

Date: MAY.18, 2011

Page 1 of 5

JIANGYIN PIVOT DECORATIVE MATERIALS CO., LTD

PIVOT INDUSTRIAL PARK 9TH HUAXI VILLAGE, HUASHI TOWN, JIANGYIN, JIANGSU

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

Sample Description: FIRE-RESIST ALUMINIUM COMPOSITE PANEL (IBOND BRAND FIRE-RESIST

ACP, BOTH SIDE IS COATED ALUMINUM COILS, INSIDE IS NON

COMBUSTION MINERAL CORE)

SGS Ref No.: SHHG1104008273SD

Test Requested:

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

Test Results: -- See attached sheet --

Conclusion:

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

There is no fall-off of burning material.

Test Period:

Sample Receiving Date

: MAY.04, 2011

Test Performing Date

: MAY.04, 2011 TO MAY.18, 2011

Signed for and on behalf of SGS-CSTC Co., Ltd

Jaffery Lee

Engineer

his 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/terms_and This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/terms_and_conditions or leading to the first of th

No.301, Yangguang Avenue, District 2, Sunlight Industrial Zone, Anji County, Zhejiang Province, China 313300 t (86–572) 5018825 f (86–572) 5018829 www.cn.sgs.com 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com 中国·浙江·安吉县阳光工业园二区阳光大道301号



No. AJD201101758

Date: MAR.18, 2011

Page 2 of 5

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

General description	Fire-Resist Aluminium Composite Panel
Color / Density	Blue / Approximate 6.3kg/m²
Size of sample	1000x190mm & 190x90mm

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 %.

III. Test results

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

Orientation: NA, Exposed surface: Front Face

	Results of "Brandscha	acht" Test	t (part 1)				
Line		Unit	Test assemblies No.				
No.		Offic	Α	В	С	D	
1	Specimen fixings according to DIN 4102 part 15, table	3.2	1				
2	Max. flame height above lower sample edge;	cm	25		¥		
3	Time 1)	min:s	10:00				
	Melting/burning through	150	No				
4	Time 1)	min:s	1				
	Back of specimen	-	No			-55	
5	Flaming/glowing, Time 1)	min:s	1				
6	Discolouring, Time 1)	min:s	1				
	Burning droplets	-7.	No				
7	Begin 1)	min:s	1			19"	
	Amount		1				
8	Specimen material falling off in separate droplets		1				
9	Specimen material falling off continuously	197	1		F. F.	- 0	

To be continued...

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at httm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability independing attention 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 for preversing all their hights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any anauthorized 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 salted their except in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.301, Yangguang Avenue, District 2, Sunlight Industrial Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 中国·浙江·安吉县阳光工业园二区阳光大道301号

邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

www.cn.sqs.com



No. AJD201101758

Date: MAR.18, 2011

Page 3 of 5

Line	Results of "Brandscha	1000	- 275	Toot open	mblica Na			
Line No.		Unit	Test assemblies No. A B C D					
	Burning parts		No			7		
10	Begin 1)	min:s	,			.65		
11	Parts of sample falling off separately	**************************************	,		=			
12	Parts of sample falling off continuously	100	,					
13	Duration of continued combustion on mesh base (max.)	min:s	No	_				
Ę.	Burner flame impairment by dripping/falling material		No					
14	Time 1)	min:s	1					
	Premature ending of test	-	1		1,2	1		
15	End of burning at specimen 1)	min:s	1			-11		
16	Time when test terminated (if applicable) 1)	min:s	_ /					
	Burning after end of test		1					
17	Duration	min:s	1:02			1 6		
18	Number of specimens	7	1					
19	Front of specimen	- 37	1					
20	Back of specimen	1.0	✓					
21	Height of flame	cm	5		_	5,7		
	Glowing after end of test	5	No	= =		-		
22	Duration	min:s	1			-		
23	Number of specimens	- 97	1			- 7		
24	Front of specimen		1					
25	Back of specimen	13.	1		-			
26	Top half of specimen	- 49	1		15			
27	Bottom half of specimen		1			47		

To be continued...

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at httm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability independent 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 injection 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 for prevencing all their parts and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any finauthorized 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 states there is a sample of the content of the sample of the content of the sample of the sample

AJHG 142899

No.301,Yangguang Avenue,District 2, Sunlight Industrial Zone, Anji County, Zhejiang Province,China 313300 t (86-572) 5018825 f (86-572) 5018829 www.cn.sgs.com中国・浙江・安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com



No. AJD201101758

Date: MAR.18, 2011

Page 4 of 5

Line			st (part 3) Test assemblies No.					
No.		Unit	Α		В	С	D	
-	Residual length							
00	0.551	67	80	81				
28	Single results	cm	80	79				
29	Average of the single results	cm	80					
	Smoke temperature		1			=		
30	Max. of average	$^{\circ}$	125			=	100	
31	Time 1)	min:s	10:00				1 4	

Note: 1) time from start of testing

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

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

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

All timings are from start of testing

Comments:

[√] DIN 4102-B2; [] DIN 4102-B3

To be continued...

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/terms_and_conditions. In the conditions of Electronic Documents at www.sgs.com/terms_e-document.htm. 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 this 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 there suits shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

A.IHG 1/2900

No.301, Yangguang Avenue, District 2, Sunlight Industrial Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.cn.sgs.com中国・浙江・安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com



No. AJD201101758

Date: MAR.18, 2011

Page 5 of 5

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.

Photo Appendix:



***End of Report**

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/terms_and_conditions.
http://www.sgs.com/terms_and_conditions.
http://www.sgs.com/terms_e-document.htm. 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 holts and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company.
Any anauthorized 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 their exults shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

www.cn.sgs.com