

Test Report No. SDFS2111007596FF Date: Nov.30, 2021 Page 1 of 6

GUANGZHOU SEASON DECORATION MATERIALS CO.LTD.
NO.57-9,JINGHU AVENUE,XINYA STREET, HUADU DISTRICT,GUANGZHOU CITY,CHINA.

Sample Description : GALVANIZED STEEL CLIP IN CEILING PANEL

Material Mark : GALVANIZED STEEL

Number of Samples : 15 PIECES

Sample Model : CLIP IN CEILING PANEL Sample Specification : 225x225mm/885x270mm

Production Date : 2021/11/01

Manufacture : GUANGZHOU SEASON DECORATION MATERIALS CO.LTD.

Manufacture Address : NO.57-9, JINGHU AVENUE, XINYA STREET, HUADU DISTRICT, GUANGZHOU

CITY, CHINA.

Supplier : GUANGZHOU SEASON DECORATION MATERIALS CO.LTD.

Country of Destination : SAUDI

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

SGS Ref No. : GZAT2111016035NM

Sample Receiving Date : Nov.17, 2021

Test Performing Date : Nov.17, 2021 to Nov.29, 2021

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments				
1	BS 476 Part 6:1989 + A1:2009 + C1:2014 —Fire tests on building materials and structures — Part 6: Method of test for fire propagation for products	Refer to next page(s)	The tested sample complies with the requirement of Class 0 of UK Building Regulations				
2	BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014 Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products.	Class 1	2010 Approved Document B (2006 edition), Volume 1- Dwellinghouse,appendix A paragraph 13.				
For fu	For further details, please refer to the following page(s)						

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





Ada Liu Approved signatory



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Test 1

I. Test conducted

This test was conducted in accordance with the procedure specified in BS 476 Part 6:1989 + A1:2009 + C1:2014 —Fire tests on building materials and structures—Part 6: Method of test for fire propagation for products.

II. Sample details

Sample Name	Coating
Thickness	0.6 mm
Color	Face: white; Back: white + silver
Specimen size	225mm×225mm

III. Test details

Conditioning of specimens:	Prior to testing, the sample was conditioned to constant mass at a temperature of (23 ± 2) °C, and a relative humidity of (50 ± 5) %, and maintained in this condition until required for testing.		
Exposed Face:	The coating surface		
Form in which the specimens	Composite		

IV. Test results

Throughout the test on each specimen, carefully observe the material's behaviour within the apparatus and take special note of any of the following phenomena listed in clause 9.2 of the standard. None of the listed phenomena was observed and the test results on all three specimens tested were valid.

The index of the performance for the specimen was determined as follows:

$$S_1 = \sum_{t=0.5}^{t=3} \frac{\theta_s - \theta_c}{10t}, \ S_2 = \sum_{t=4}^{t=10} \frac{\theta_s - \theta_c}{10t}, \ S_3 = \sum_{t=12}^{t=20} \frac{\theta_s - \theta_c}{10t}, \ S = S_1 + S_2 + S_3$$

Where:

S = index of performance for each of the specimens tested and S1, S2 and S3 are sub- indices t = Time in minutes from the origin at which readings are taken

 $\theta_{\rm s}$ = Temperature rise in °C for the specimen at time, t

 θ_{c} = Temperature rise in $^{\circ}\mathrm{C}$ for the calibration sheet at time, t

Fire Propagation index $I = i_1 + i_2 + i_3$

Where, i_1 , i_2 and i_3 are given by the expressions:

$$i_{1} = \frac{1}{3} \left[\left(S_{1} \right)_{A} + \left(S_{1} \right)_{B} + \left(S_{1} \right)_{C} \right], \ i_{2} = \frac{1}{3} \left[\left(S_{2} \right)_{A} + \left(S_{2} \right)_{B} + \left(S_{2} \right)_{C} \right], \ i_{3} = \frac{1}{3} \left[\left(S_{3} \right)_{A} + \left(S_{3} \right)_{B} + \left(S_{3} \right)_{C} \right]$$



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The following test results were obtained for each specimen tested:

Specimen No.	Sub - indices			Index of performance	
Specimen No.	S ₁	S ₂	S ₃	S	
Α	0.7	0.3	0.0	1.0	
В	0.8	0.4	0.0	1.2	
С	0.7	0.2	0.0	0.9	

Number of Specimens tested	Sub-index i ₁	Sub-index i ₂	Sub-index i ₃	Fire Propagation index
3	0.7	0.3	0.0	1.0

Test 2:

I. Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014 Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products.

II. Sample details

Sample name	Coating
Thickness	0.6 mm
Color	Face: white; Back: white + silver
Specimen size	885mm×270mm

III. Test details

Conditioning of specimens:	Prior to testing, the sample was conditioned to constant mass at a temperature of (23 ± 2) °C, and a relative humidity of (50 ± 10) %, and maintained in this condition until required for testing.
Exposed Face:	The coating surface



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Irradiance along horizontal reference line on the calibration board

Distance along reference line from inside edge of specimen holder	Irradiance / (kW/m²)		
mm	Specified	Min.	Max.
75	32.5	32.0	33.0
225	21.0	20.5	21.5
375	14.5	14.0	15.0
525	10.0	9.5	10.5
675	7.0	6.5	7.5
825	5.0	4.5	5.5

IV. Test results

Specimen No.	1	2	3	4	5	6
Distance (mm)	Т	ime to travel	to indicated d	istance (minu	ites:seconds	3)
75						
165						
190						
215						
240						
265						
290						
375			1	1	-	
455						
500			1	1	1	
525			1	1	1	
600			1	1	1	
675			-	-	1	
710			1	1	1	
750			1	1	1	
785			1	1	1	
825						
Maximum distance traveled at 1.5 minutes (mm)	<50	<50	<50	<50	<50	<50
Maximum distance traveled during the whole test (mm)	<50	<50	<50	<50	<50	<50
Time to reach maximum distance traveled	<1min	<1min	<1min	<1min	<1min	<1min
Observations during test	Charring	Charring	Charring	Charring	Charring	Charring



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Note: 1. "--" Not reached the reference line

2. Six specimens are usually tested. If the test on any specimen is deemed to be invalid, as defined in the standard, it is permissible for up to a maximum of nine specimens to be tested in order to obtain the six valid test results.

The classification limits specified in BS 476-7:1997 *Incorporating Corrigendum No.1:2014* are given in Appendix 1.

Criteria for classification:

If the prefix "D" or suffix "R" or "Y" is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

Appendix 1 Classification of spread of flame

	Spread	of flame at 1.5 min	Final spread of flame		
Classification	Limit (mm)	Limit for one specimen in sample(mm)	Limit (mm)	Limit for one specimen in sample(mm)	
Class 1	165 165+25		165	165+25	
Class 2	215 215+25		455	455+45	
Class 3	265	265+25	710	710+75	
Class 4	Exceeding the limits for class 3				

Appendix 2 Explanation of prefix and suffixes which may be added to the classification

- 1. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
- 2. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
- 3. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

<u>Classification</u>: In accordance with the class definitions given in BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014, the tested sample is classified as <u>Class 1</u>.



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Requirement of UK Building Regulations 2010 Approved Document B (2006 edition), Volume 1-

Dwellinghouse appendix A paragraph 13:

A Class 0 is the highest national product performance classification for lining materials, and the requirements laid down in the UK Building Regulation 2010 Approved Document B(2006 edition), Volume 1-Dwellinghouse, appendix A paragraph 13. This is achieved if a material or the surface of a composite product is either:

- a. composed throughout of materials of a limited combustibility; or
- b. a Class 1 materials which has a fire propagation index (I) of not more than 12 and sub-index (i₁) of not more than 6.

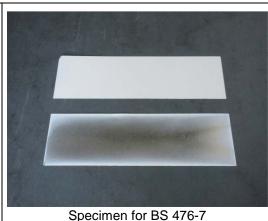
Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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 hazard of the product in use. The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

Photo Appendix:





End of Report



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