

Test Report No. AJHL1602001198FB Date: MAR.24, 2016 Page 1 of 6

WALER PRECISION MFG. SDN. BHD.

NO.2, JALAN GANGGIH 1, TAMAN PERINDUSTRIAN CEMERLANG, 81800 ULU TIRAM, JOHOR, MALAYSIA.

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

Sample Description: WALL CLADDING PROFILES

Type/Style: CP95 / CP140

Density: 1.5G/ML

Thickness: 3MM-4MM

Composition: FIBRE PLASTIC COMPOSITES

Buyer: BEWUST IN DE BOUW

HENRI POLAKLAAN 16HS 1018 CS AMSTERDAM

NEDERLAND/THE NETHERLANDS/DIE NIEDERLANDE

Manufacturer: WALER PRECISION MFG. SDN. BHD.

Country of Origin: MALAYSIA

Country of Destination: NETHERLANDS Agent: RESYSTA INTERNATIONAL GMBH

Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1:

Classification using data from reaction to fire tests, class B.

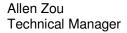
Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : MAR.07, 2016

Test Performing Date : MAR.07, 2016 TO MAR.23, 2016

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





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, foregery or faisification 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gs.com



No. AJHL1602001198FB

Date: MAR.24, 2016

Page 2 of 6

Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 1. EN 13823:2010 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- 2. EN ISO 11925-2:2010 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "Wall Cladding Profiles" is defined as building materials. Its end use application: Building materials.

b) Description

The details of the product given above have been prepared from information provided by the sponsor of the test.

Color	Light brown
Thickness	13mm
Mass per unit area	8.53kg/m ²

Mounting and fixing:

Fire cement board, with its density approximate 1800kg/m², thickness 6mm is as the substrate. The test specimens are fixed mechanically to be substrate with screws, with vertical joint.

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA (W/s)	GRA (W/s)	
	LFS < edge of specimen		Yes
	THR _{600s} (MJ)	3	6.3
	SMOGRA (m^2/s^2)	3	15.2
	TSP _{600s} (m ²)		193.0
	Flaming particles or droplets		No

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/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, foregery or faisification 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gs.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn



No. AJHL1602001198FB

D - 1 -			0.4	0040
Date:	IVI	AK	.24.	2016

Page 3 of 6

Test method	Parameter	Specimen number	Results
EN ISO 11925-2	<i>F</i> s ≤ 150 mm	6	Yes
Exposure = 30 s	Ignition of the filter paper	0	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

a) Classification

The product, Wall Cladding Profiles, classification is as following,

Fire behaviour	Smoke production			Flami drople	
В	S	2	,	d	0

Reaction to fire classification: B-s2, d0

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

This classification for the submitted sample is valid for the following end use condition:

- --- With all substrate classified A1 and A2
- --- With vertical joint

This classification is valid for the following product parameters:

---Characteristics of various layers identical to those as described in § II b) of this test reports.

Statement: 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.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

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/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-a-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 Sindings 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, foregry 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@egs.com



No. AJHL1602001198FB

Date: MAR.24, 2016

Page 4 of 6

Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Insulation products					
Class	Test method(s)		Classification criteria	Additional classification	
	EN ISO 1182 ^a	and	\triangle <i>T</i> ≤30°C, and \triangle <i>m</i> ≤50%, and t _f =0(i.e. no sustained flaming)	-	
A1	EN ISO 1716		PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ² d and PCS≤2.0MJ/kg ^e	-	
	EN ISO 1182 ^a or		<i>∆T</i> ≤50°C, and <i>∆m</i> ≤50%, and t _f ≤20 s	-	
A2	EN ISO 1716	and	PCS≤3.0MJ/kg a and PCS≤4.0MJ/m² b and PCS≤4.0MJ/m² d and PCS≤3.0MJ/kg e and	-	
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823 EN ISO 11925-2 i Exposure =30s		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production fand Flaming droplets/particles g	
			within 60s <i>F</i> s≤150mm	riaming droplets/particles	
С	EN 13823	and	FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production fand Flaming droplets/particles	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	riaming droplets/particles	
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
E	EN ISO 11925-2 i Exposure =15s		Fs≤150mm within 20 s	flaming droplets/particles h	

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/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, foregery or faisification 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CS.N.Doccheck@ags.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn



No. AJHL1602001198FB

Date: MAR.24, 2016

Page 5 of 6

F No performance determined

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

- ^c Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

- In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
- $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; s3 = not s1 or s2
- ^g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

h Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

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/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-a-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 Sindings 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, foregry 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@egs.com



No. AJHL1602001198FB

Date: MAR.24, 2016

Page 6 of 6

Photo Appendix:



SGS authenticate the photo on original report only ***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/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 atteration, foregery or faisification 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CS.N.Doccheck@egs.com