

Test Report No. AJFS1903002291FF-01 Date: APR.23, 2019 Page 1 of 6

VISTA GREEN

UNIT 6, TRADE CITY, LYON WAY, FRIMLEY, GU167AL ENGLAND

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: AJFS1903002291FF, DATE: MAR.29, 2019

The following sample(s) 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. results apply to the sample as received.

Sample Description: ARTIFICIAL FOLIAGE

SGS Ref No.: SHHL1903012479OT

Style No.: UH

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

Test Results: -- See attached sheet -

Test Period:

Sample Receiving Date : MAR.21, 2019

Test Performing Date : MAR.21, 2019 TO APR.19, 2019

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

Allen Zou Lab Manager





No. AJFS1903002291FF-01

Date: APR.23, 2019

Page 2 of 6

I. 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+A1:2014 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010+Corl:2011 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 "Artificial foliage" is defined as a decorative sheet. Its end use application: "WALL DECORATION"

b) Description

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

Description	Artificial foliage			
Color	Green			
Thickness	About 12mm			

Mounting and fixing:

Calcium silicate board, with its density approximate about 900kg/m³, thickness 9mm, is as the backing board. The test specimens are fixed mechanically in the trolley, clamped at the top and the bottom and a distance of 90mm from the backing board.

III. Test results

Test method	Parameter	Number of tests	Results	
EN 13823	FIGRA _{0.2MJ} (W/s)		0	
	FIGRA _{0.4MJ} (W/s)		0	
	LFS < edge of specimen	3	Yes	
	THR _{600s} (MJ)		0.4	
	SMOGRA (m²/s²)		0.1	
	TSP _{600s} (m ²)		14.3	
	Flaming particles or droplets		No	

To be continued...



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No. AJFS1903002291FF-01

Date: APR.23, 2019

Page 3 of 6

Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	<i>F</i> s ≤ 150 mm	C	Pass
	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, Artificial foliage, classification is as following,

Fire behaviour		Smoke production			Flaming droplets	
В	_	S	1	,	d	0

Reaction to fire classification: B-s1, 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 mechanically fixing
- --- No joint

This classification is valid for the following product parameters:

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

Statement:

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.

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...



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No. AJFS1903002291FF-01

Date: APR.23, 2019

Page 4 of 6

Annex A

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

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Class	Test method(s)		Classification criteria	Additional classification	
A1	EN ISO 1182 a and		△T≤30°C, and △m≤50%, and t _{f=} 0(i.e. no sustained flaming)	-	
	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	-	
A2	EN ISO 1182 ^a or		<i>∆T</i> ≤50°C, and <i>∆m</i> ≤50%, and tr≤20 s	-	
	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	-	
	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	
B EN ISO 1	EN 13823	and	FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure =30s		within 60s <i>F</i> s≤150mm	riaining dropiets/particles *	
С	EN 13823	and	FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production f and	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ^g	
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s		
Е	EN ISO 11925-2 i Exposure =15s		Fs≤150mm within 20 s	flaming droplets/particles h	

To be continued...



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No. AJFS1903002291FF-01

Date: APR.23, 2019

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.
- ° 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.
- fin 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
- ⁹ 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).
- ¹ Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

To be continued...



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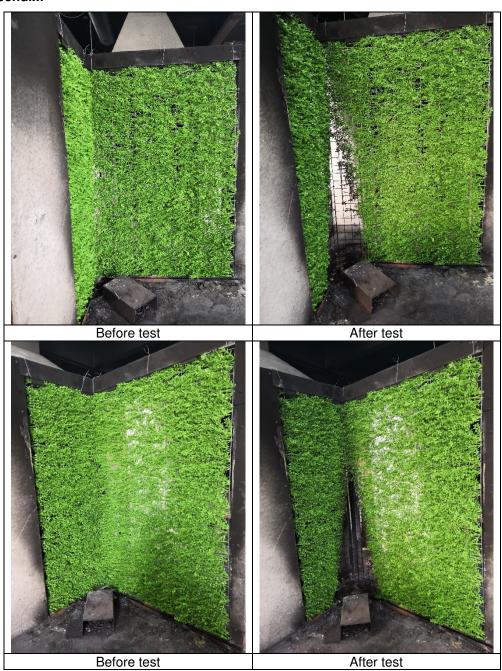


No. AJFS1903002291FF-01

Date: APR.23, 2019

Page 6 of 6

Photo Appendix:



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End of Report



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