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PIVOT DECORATIVE MATERIALS CO., LTD

PIVOT INDUSTRIAL PARK, HUASHI, JIANGYIN JIANGSU, CHINA

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

Product Description: FIRE-RESIST ALUMINIUM COMPOSITE PANEL

Manufacturer: PIVOT DECORATIVE MATERIALS CO., LTD

Country of Origin: CHINA

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required:

This test is conducted as per EN 13823:2002 and EN ISO 11925-2:2002, and the results classification has been carried out in accordance with EN 13501-1:2007.

Test Results: -- See attached sheet --

Test Duration:

Sample Receiving Date : AUG.20, 2008

Test Performing Date : AUG.20, 2008 TO SEP.17, 2008

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

Jaffery Lee Engineer

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I. Test reference

- EN 13501-1:2007 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests.
- EN 13823:2002 Reaction to fire tests for building products Building products excluding floorings
 exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2002 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Product details:

Descriptions (EN 13823)	1) No substrate and free standing at a distance of 80mm from the backing board
	in the trolley.
(LIV 13023)	2) The specimen is fixed mechanically in the trolley.

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

III. Test results:

Test method	Parameter	Parameter Specimen number	
EN 13823	FIGRA (W/s)		7.5
	LFS< edge of specimen		YES
	THR _{600s} (MJ)	3	2.1
	SMOGRA (m²/s²)	S	4.0
	TSP _{600s} (m ²)		14.4
	Flaming particles or droplets		NO
EN ISO 11925-2 Exposure = 30 s	Fs ≤ 150 mm	6	YES
	Ignition of the filter paper	U	NO

To be continued...

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IV. Classification

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

Conclusion: The product, SI – TERMINAL, 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.

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.

Annex A

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

Class	Test method(s)		Classification criteria	Additional classification
	EN ISO 1182 a and		△ <i>T</i> ≤30°C, and △ <i>m</i> ≤50%, and t _i =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 and PCS≤2.0MJ/kg ^e	-
A2	EN ISO 1182 ^a or		<i>∆T</i> ≤50℃, and <i>∆m</i> ≤50%, and t _f ≤20 s	-
	EN ISO 1716	and	PCS≤3.0MJ/kg ^a and PCS≤4.0MJ/m ² b and PCS≤4.0MJ/m ² 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

To be continued...



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В	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
	EN ISO 11925-2 i Exposure =30s		60s 内 <i>F</i> s≤150mm	g
С	EN 13823	and	FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production ^f and Flaming droplets/particles
	EN ISO 11925-2 i Exposure=30s		<i>F</i> s≤150mm within 60 s	g
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and
	EN ISO 11925-2 i Exposure=30s		<i>F</i> s≤150mm within 60 s	Flaming droplets/particles
E	EN ISO 11925-2 Exposure =15s		<i>F</i> s≤150mm within 20 s	flaming droplets/particles h
F	No performance determ	mined		

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

 $s1 = SMOGRA \le 30m^2/s^2$ 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...

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

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

^d For any internal non-substantial component of non-homogeneous products.

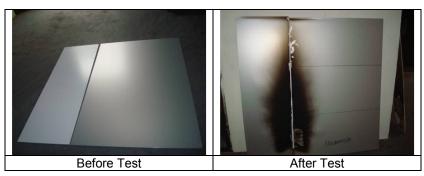
^e For the product as a whole.

^f 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.



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Photo Appendix:



End of Report