

**Report No. : MAN:TR:7530017798-1**

**DATE : 04/02/2017**



**UNIVERSAL METALTEK**

D-189, EXPORT PROMOTION INDL AREA, SURAJPUR, SITE - 5, KASNA  
GREATER NOIDA-201308  
INDIA

**CONTACT PERSON :** MR. SHIVAM AGARWAL

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :**

**SAMPLE DESCRIPTION** HONYLITE HONEYCOMB PANEL

**PO NUMBER** UM/2016-17/GN-021

**COUNTRY OF ORIGIN** INDIA

**SAMPLE RECD ON** 15/11/2016

**TESTING PERIOD :** 10/01/2017 - 23/01/2017

**MODIFIED DATE** 02/02/2017

**TEST(S) 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 A2)

**THIS REPORT HAS BEEN REVISED TO SOME MINOR CORRECTIONS/ADDITIONS AS PER CLIENT REQUEST.**

**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 exposed to the thermal attack by a single burning item.
2. EN ISO 1716:2010 Reaction to fire tests for building products — Determination of the heat of combustion.

**II. Details of classified product**

a) Nature and end use application

The product “HONYLITE HONEYCOMB PANEL” is defined as building material. Its end used for: For making decorative interior and exterior façade, partitions, ceilings, walls, doors etc. of a building

b) Description

Sample Description	The product “HONYLITE Honeycomb Panel” comprising of a non-combustible aluminum honeycomb core sandwich between thin layer of adhesive and aluminum sheets on both sides.
Color	Silver
Thickness	20mm
Area Weight	6.5 kg/m2

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Mounting and fixing:

Fire cement board, with its density approximate 1800kg/m<sup>3</sup>, thickness 9mm is as the backing board. The test specimens are free standing at a distance of 90mm from the backing board. No joint in the long wing.

**III. Test results**

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA ( W/s )	3	4.5
	LFS < edge of specimen		Yes
	THR <sub>600s</sub> ( MJ )		0.8
	SMOGRA ( m <sup>2</sup> /s <sup>2</sup> )		1.2
	TSP <sub>600s</sub> ( m <sup>2</sup> )		6.6
	Flaming particles or droplets		No
EN ISO 1716	PCS/ MJ/kg <sup>a</sup>	3	0
	PCS/ MJ/m <sup>2</sup> <sup>b</sup>		---
	PCS/ MJ/m <sup>2</sup> <sup>d</sup>		2.06
	PCS/ MJ/kg <sup>e</sup>		0.62

**Note:** PCS – gross calorific potential [MJ/kg or MJ/m<sup>2</sup>]

**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, "HONYLITE HONEYCOMB PANEL", classification is as following,

Fire behaviour		Smoke production			Flaming droplets	
<b>A2</b>	-	s	1	,	d	0

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**Reaction to fire classification: A2—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 as described in §II b, is valid for the following end use condition:

- With all substrate classified A1 & A2
- With mechanical fixing
- Free standing
- No 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 report.

**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.

**Annex A**

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

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**TEST REPORT**

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Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0 \text{ MJ/kg}$ <sup>a</sup> and $PCS \leq 2.0 \text{ MJ/kg}$ <sup>b,c</sup> and $PCS \leq 1.4 \text{ MJ/m}^2$ <sup>d</sup> and $PCS \leq 2.0 \text{ MJ/kg}$ <sup>e</sup>	-
A2	EN ISO 1182 <sup>a</sup> or	and $\Delta T \leq 50$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20$ s	-
	EN ISO 1716		-
	EN 13823	$FIGRA \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
B	EN 13823 and	$FIGRA \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure =30s	$F_s \leq 150 \text{ mm}$ within 60s	

Class	Test method(s)	Classification criteria	Additional classification
C	EN 13823 and	$FIGRA \leq 250 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure=30s	$F_s \leq 150 \text{ mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750 \text{ W/s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure=30s	$F_s \leq 150 \text{ mm}$ within 60 s	
E	EN ISO 11925-2 <sup>i</sup> Exposure =15s	$F_s \leq 150 \text{ mm}$ within 20 s	flaming droplets/particles <sup>h</sup>
F	No performance determined		

<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.

<sup>b</sup> For any external non-substantial component of non-homogeneous products.

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

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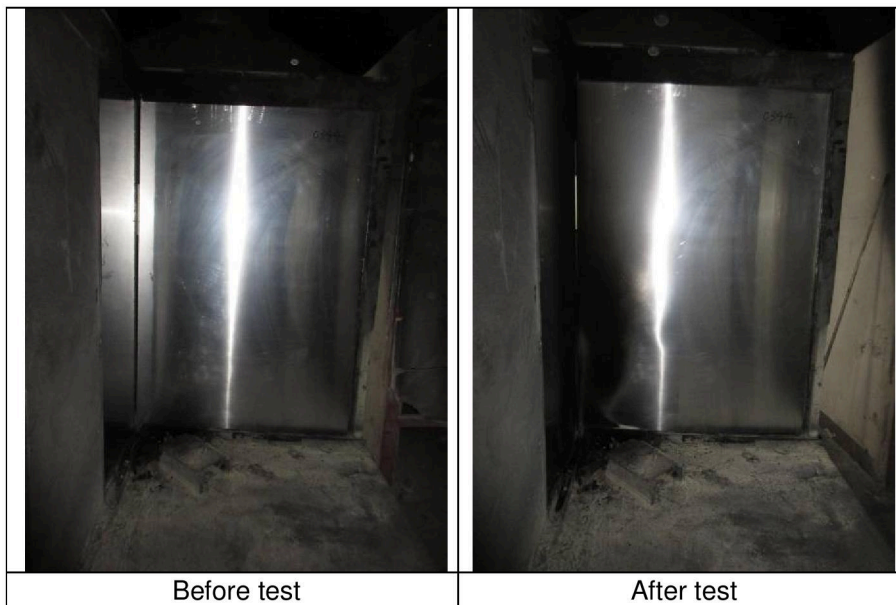
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4,0 MJ, and s1, and d0.  
<sup>d</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>e</sup> For the product as a whole.  
<sup>f</sup> In the last phase of the development of the test procedure, modifications of the 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  $\leq 30\text{m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 50\text{m}^2$  ; s2 = SMOGRA  $\leq 180\text{m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 200\text{m}^2$ ; s3 = not s1 or s2  
<sup>g</sup> 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.  
<sup>h</sup> Pass = no ignition of the paper (no classification);  
 Fail = ignition of the paper (d2 classification).  
<sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

**Photo Appendix:**



Before test

After test

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SGS authenticate the photo on original report only

**Note** : Above test is subcontracted to **SGS APPROVED LAB.**

\*\*\*\*\* End of Report \*\*\*\*

Per Pro SGS India Private Ltd

**Authorized Signatory**

**Lalit Raheja  
(Asst. Manager)**

Email your Test Report Related Enquiries at [Feedback.TRP@sgs.com](mailto:Feedback.TRP@sgs.com)

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