

## TEST REPORT

**REPORT NO.: 2010FE0149**

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Our Ref : SQAS / FPS / 15 / 1 - 5

Issued by : **Fire Protection Section**

Issued date : 23 MAR 2010

Product : **ALUMINIUM / ZINC ALLOY COATED STEEL STRIP**

Reference Standard/  
Method of test : BS 476: Part 6: 1989  
Fire Test on Building Materials and Structures  
Part 6: Method of Test for Fire Propagation for Products.


Applicant : **BLUESCOPE STEEL (MALAYSIA) SDN. BHD.**  
Lot 1551, Jalan Bukit Kapar,  
42200 Kapar,  
Selangor Darul Ehsan,  
**(Attn: Mr. Jack Chum Pak Kuan)**


Description of sample : 3 pieces of Aluminium / Zinc Alloy Coated Steel Strips.  
Size of Specimen : 225mm × 225mm × 0.45 mm (measured thickness)  
Brand : ZINCALUME® Steel  
Nominal Total Coated Thickness : 0.470 ± 0.030 mm  
Nominal Density : 7300 kg/m<sup>3</sup>  
Measured Density : 7697 kg/m<sup>3</sup>

The specimens were tested with one of the face side exposed to the specified heating condition of the fire test.

Date received : 10.03.2010

Job No. : J2010 506 0108

  
ABDULLAH SYAHRIL MAT JANI  
Testing Executive

  
ZAINI AHMAD  
Group Leader  
Fire Protection Section  
Testing Services Department  
SIRIM QAS International Sdn. Bhd.

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**Name of Applicant** : BLUESCOPE STEEL (MALAYSIA) SDN. BHD.  
**Product** : ALUMINIUM / ZINC ALLOY COATED STEEL STRIP  
**Brand** : ZINCALUME® Steel  
**Nominal Total Coated Thickness** : 0.470 ± 0.030 mm      **Measured Thickness** : 0.45 mm  
**Nominal Density** : 7300 kg/m<sup>3</sup>      **Measured Density** : 7697 kg/m<sup>3</sup>  
**Date of Test** : 08.04.2010

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	21	19	17	18	18
1.0	23	25	23	24	24
1.5	27	28	27	28	28
2.0	31	33	32	33	33
2.5	34	38	36	38	37
3.0	37	42	41	41	41
4.0	62	71	71	71	71
5.0	98	116	116	115	115
6.0	125	141	141	141	141
7.0	144	164	164	165	164
8.0	163	182	181	181	181
9.0	176	199	197	198	198
10.0	189	211	212	212	211
12.0	209	231	233	232	232
14.0	225	246	249	247	247
16.0	237	256	258	258	257
18.0	245	264	266	266	265
20.0	251	271	271	271	271
Subindex 1		0.8	0.4	0.6	0.6
Subindex 2		1.9	1.8	1.8	1.8
Subindex 3		0.7	0.7	0.7	0.7
Index of Performance		3.4	2.9	3.1	3.1



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Date of Test : 08.04.2010

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **3.1** for the Aluminium / Zinc Alloy Coated Steel Strips with known density of  $7697 \text{ kg/m}^3$  and measured thickness of 0.45 mm.

The Subindex i1 is 0.6

The Subindex i2 is 1.8

The Subindex i3 is 0.7

The test results relate only to the behavior of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



20 APR 2010

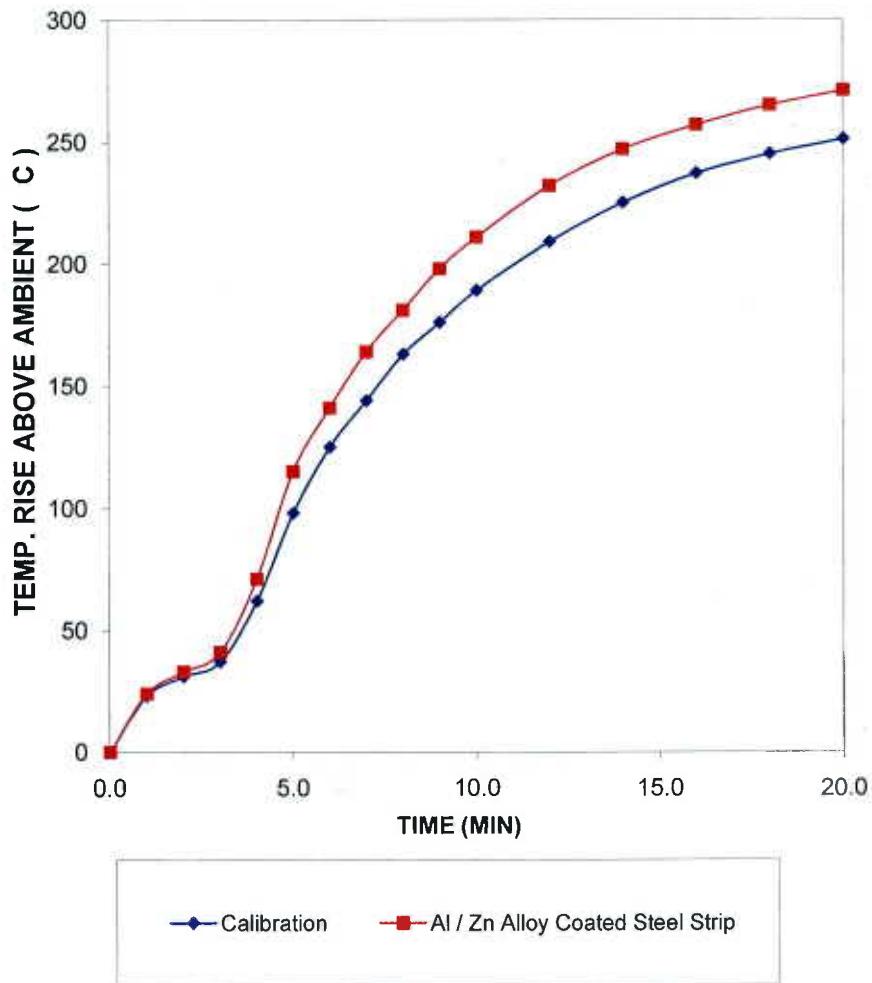
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**Product** : ALUMINIUM / ZINC ALLOY COATED STEEL STRIP  
**Brand** : ZINCALUME® Steel  
**Nominal Total Coated Thickness** :  $0.470 \pm 0.030$  mm      **Measured Thickness** : 0.45 mm  
**Nominal Density** :  $7300 \text{ kg/m}^3$       **Measured Density** :  $7697 \text{ kg/m}^3$   
**Date of Test** : 08.04.2010



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