



SIRIM QAS International Sdn. Bhd.

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(Company No: 410334-X)

TEST REPORT

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Our Ref : SQAS / FPS / 15 / 1 - 6

Issued by : **Fire Protection Section**

Issued date : **07 MAY 2010**

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

Reference Standard/
Method of test : BS 476 : Part 7: 1997
Fire Test on Building Materials and Structures
Part 7: Surface Spread of Flame Test.

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 : 6 pieces of Aluminium / Zinc Alloy Coated Steel Strips.
Size of Specimen : 270mm × 885mm × 0.42 mm (measured thickness)
Brand : ZINCALUME® Steel
Nominal Total Coated Thickness : 0.470 ± 0.030 mm
Nominal Density : 7300 kg/m³
Measured Density : 8196 kg/m³

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 0109

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** : 0.42 mm
Nominal Density : 7300 kg/m³ **Measured Density** : 8196 kg/m³

Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

Classification of Surface Spread of Flame

Classification	Flame Spread at 1½ min		Final Flame Spread	
	Limit (mm)	Tolerance for one specimen in sample (mm)	Limit (mm)	Tolerance for one specimen in sample (mm)
Class 1	165	25	165	25
Class 2	215	25	455	45
Class 3	265	25	710	75
Class 4	Exceeding Class 3 limits			



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Test Results

Product : ALUMINIUM / ZINC ALLOY COATED STEEL STRIP
Brand : ZINCALUME® Steel
Nominal Total Coated Thickness : 0.470 ± 0.030 mm **Measured Thickness** : 0.42 mm
Nominal Density : 7300 kg/m³ **Measured Density** : 8196 kg/m³
Date of Test : 28.04.2010

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes . seconds)					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0

Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

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



07 MAY 2010