

## TEST REPORT

**REPORT NO.: 2016FE0454**

**PAGE 1 OF 4**

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for Conditions Relating to the Use of Test Report.

Applicant/  
Manufacturer : **CSC STEEL SDN. BHD.**  
180, Kawasan Industri Ayer Keroh,  
75450 Ayer Keroh,  
Melaka.  
(Attn: Mrs. Cheng Le Shi / Mrs. Yu Chee Yee)

Product : **PRE-PAINTED GALVANIZED STEEL SHEET**

Reference Standard/  
Method of Test : BS 476: Part 6: 1989+A1:2009  
Fire Test on Building Materials and Structures  
Part 6: Method of Test for Fire Propagation for Products.

Description of Test Specimen : 6 pieces of Pre-Painted Galvanized Steel Sheet.  
Size of Specimen : 225mm × 225mm × 0.40mm (measured thickness)  
Brand : realcolor®  
Nominal Thickness : 0.40 mm  
Measured Density : 8238 kg/m<sup>3</sup>

Descriptions of sample as claimed by the submitter:

Topcoat : 20 microns  
Topcoat Primer : 5 microns  
Backcoat Primer : 5 microns  
Backcoat : 7 microns

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

Date Received : 08.08.2016  
Date of Test : 07.09.2016  
Job No./ Ref No. : J20161440417 /SQAS/FPS/15/1-5

Test Result	<b>Subindex i1</b>	<b>Subindex i2</b>	<b>Subindex i3</b>	<b>Fire Propagation Index (I)</b>
	<b>1.2</b>	<b>0.9</b>	<b>0.1</b>	<b>2.2</b>

Issued Date : **28 SEP 2016**

Approved Signatories :

  
.....  
**MUHAMMAD SAFUAN MUSA**  
Testing Executive



  
.....  
**ROHAYA IBRAHIM**  
Head  
Fire Protection Section  
Testing Services Department  
SIRIM QAS International Sdn. Bhd.

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for Conditions Relating to the Use of Test Report.

**Product** : PRE-PAINTED GALVANIZED STEEL SHEET      **Nominal Thickness** : 0.40 mm  
**Brand** : realcolor®      **Measured Thickness** : 0.40 mm  
**Date of Test** : 07.09.2016      **Measured Density** : 8238 kg/m<sup>3</sup>

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	15	16	17	15	16
1.0	21	22	24	20	22
1.5	24	26	27	24	26
2.0	28	33	35	30	32
2.5	32	37	38	33	36
3.0	35	42	44	43	43
4.0	59	68	74	67	70
5.0	93	95	109	104	102
6.0	119	119	130	123	124
7.0	138	138	158	146	147
8.0	156	155	174	159	163
9.0	170	169	188	177	178
10.0	181	181	192	187	186
12.0	198	197	206	202	202
14.0	210	206	217	215	212
16.0	219	215	224	222	220
18.0	226	222	233	229	228
20.0	233	225	238	231	231
Subindex 1		1.3	1.9	0.5	1.2
Subindex 2		0.3	1.7	0.8	0.9
Subindex 3		0.0	0.2	0.1	0.1
Index of Performance		1.6	3.8	1.4	2.2



*[Handwritten signature]*

28 SEP 2016

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for Conditions Relating to the Use of Test Report.

Date of Test : 07.09.2016

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **2.2** for the Pre-Painted Galvanized Steel Sheet with measured density of 8238 kg/m<sup>3</sup> and measured thickness of 0.40 mm.

**The Subindex i1 is 1.2**

**The Subindex i2 is 0.9**

**The Subindex i3 is 0.1**

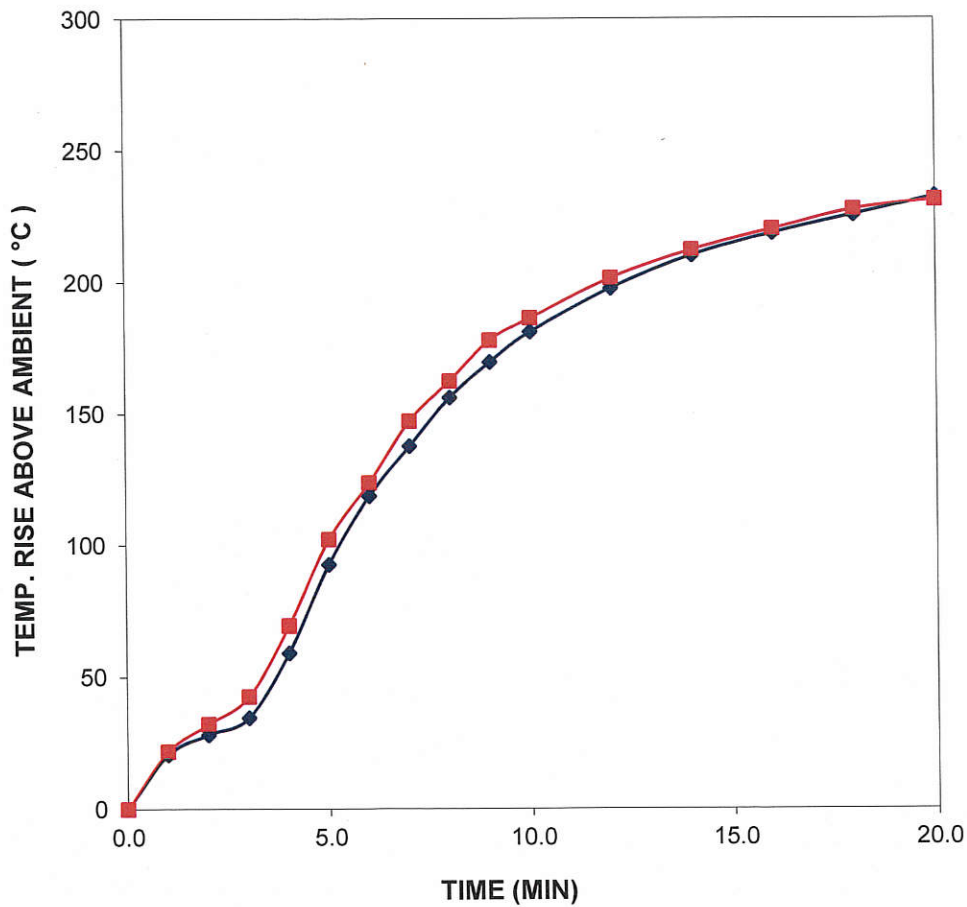
The test results relate only to the behavior of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



28 SEP 2016

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf of Page 1 for Conditions Relating to the Use of Test Report.

<b>Product</b>	: PRE-PAINTED GALVANIZED STEEL SHEET	<b>Nominal Thickness</b>	: 0.40 mm
<b>Brand</b>	: realcolor®	<b>Measured Thickness</b>	: 0.40 mm
<b>Date of Test</b>	: 07.09.2016	<b>Measured Density</b>	: 8238 kg/m <sup>3</sup>



*[Handwritten signature]*

28 SEP 2016