

## TEST REPORT

<b>REPORT NO.:</b> 2014FE0447	<b>PAGE 1 OF 4</b>
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: Mr. 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 : 3 pieces of Pre-Painted Galvanized Steel Sheet.  
Size of Specimen : 225mm × 225mm × 0.40mm (measured thickness)  
Brand : realcolor®  
Nominal Thickness : 0.42 mm  
Measured Density : 8729 kg/m<sup>3</sup>

Descriptions of sample as claimed by the submitter:

Primer Coat : Nominal film thickness 10µm topcoat, 5µm backcoat.  
Finish Coat : High performance polyester paint system in nominal film thickness 20µm.  
Backing Coat : Nominal film thickness 7µm.

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

Date Received : 19.09.2014  
Date of Test : 16.10.2014  
Job No./ Ref No. : J20141440451 /SQAS/FPS/15/1-5

Test Result	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	0.1	0.1	0.0	0.2

Issued Date : 06 NOV 2014

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** : 0.42 mm  
**Brand** : realcolor® **Measured Thickness** : 0.40 mm  
**Date of Test** : 16.10.2014 **Measured Density** : 8729 kg/m<sup>3</sup>

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	13	10	11	12	11
1.0	18	15	16	17	16
1.5	22	20	20	21	20
2.0	24	24	24	26	24
2.5	27	27	27	30	28
3.0	31	31	31	33	32
4.0	61	59	60	65	61
5.0	100	91	96	101	96
6.0	124	120	124	129	124
7.0	149	144	145	145	144
8.0	161	162	164	164	163
9.0	179	176	180	179	178
10.0	191	190	191	191	191
12.0	211	207	209	210	209
14.0	223	219	222	222	221
16.0	232	230	231	233	231
18.0	242	238	238	240	238
20.0	246	241	244	248	244
Subindex 1		0.0	0.0	0.2	0.1
Subindex 2		0.0	0.1	0.2	0.1
Subindex 3		0.0	0.0	0.0	0.0
Index of Performance		0.0	0.1	0.4	0.2



*[Handwritten signature]*

06 NOV 2014

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 : 16.10.2014

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **0.2** for the Pre-Painted Galvanized Steel Sheet with measured density of 8729 kg/m<sup>3</sup> and measured thickness of 0.40 mm.

The Subindex i1 is 0.1

The Subindex i2 is 0.1

The Subindex i3 is 0.0

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.



06 NOV 2014

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

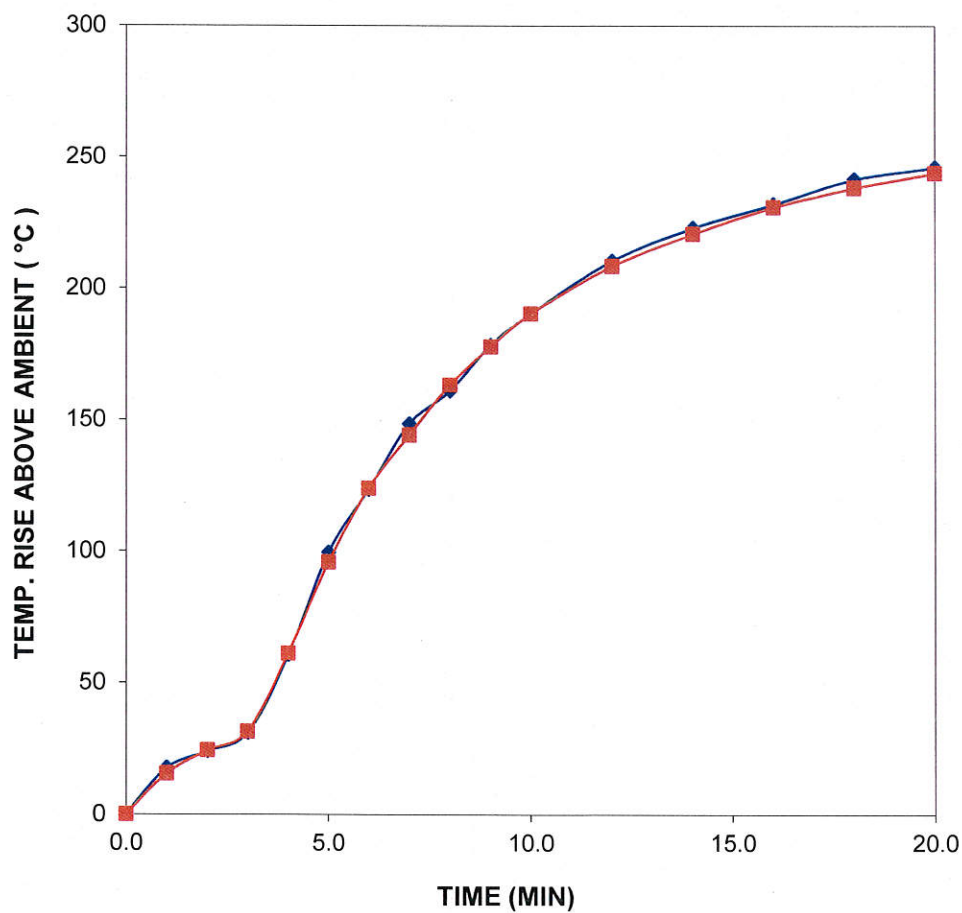
**Nominal Thickness** : 0.42 mm

**Brand** : realcolor®

**Measured Thickness** : 0.40 mm

**Date of Test** : 16.10.2014

**Measured Density** : 8729 kg/m<sup>3</sup>



—◆— Calibration

—■— Pre-Painted Galvanized Steel Sheet



06 NOV 2014