

TEST REPORT

REPORT NO.: **2014FE0448**

PAGE **1** OF **3**

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 7: 1997**
Fire Test on Building Materials and Structures
Part 7: Surface Spread of Flame Test.

Description of Test Specimen : 6 pieces of Pre-Painted Galvanized Steel Sheet.
Size of Specimen : 270mm × 885mm × 0.40mm (measured thickness)
Brand : realcolor®
Nominal Thickness : 0.42 mm
Measured Density : 8693 kg/m³

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 : 17.10.2014

Job No./ Ref No. : J20141440452 /SQAS/FPS/15/1-6

Test Result : **Classification of Surface Spread of Flame Test** : **Class 1**

Issued Date : **06 NOV 2014**

Approved Signatories :


.....
HANAFI MOHAMAD
Senior 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.

Name of Applicant : CSC STEEL SDN. BHD.
Product : PRE-PAINTED GALVANIZED STEEL SHEET
Brand : realcolor®
Nominal Thickness : 0.42 mm
Measured Thickness : 0.40 mm
Measured Density : 8693 kg/m³
Date of Test : 17.10.2014

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 | |



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.

Test Results

Product : PRE-PAINTED GALVANIZED STEEL SHEET **Nominal Thickness** : 0.42 mm
Brand : realcolor® **Measured Thickness** : 0.40 mm
Date of Test : 17.10.2014 **Measured Density** : 8693 kg/m³

| 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 behavior 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.



06 NOV 2014