

SIRIM QAS International Sdn.Bhd. (Company No.: 410334-X)

CHEMICAL TESTING SECTION, Building 16, No.1, Persiaran Dato' Menteri, P.O.Box 7035, Section 2, 40911 Shah Alam,

Selangor Darul Ehsan, Malaysia

Tel. no: 03-55446651/55446658/6662

TEST REPORT

REPORT NO.: 2006KL0603

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Applicant

GROUP STEEL CORP. (M) SDN. BHD.

180 Kawasan Industri Ayer Keroh,

Ayer Keroh, 75450 Melaka

Product

Prepainted Galvanized Steel Sheet

Reference standard/ Method of test

- 1) ASTM B117-03: Standard Practice for Operating Salt Spray (Fog) Apparatus.
- 2) ASTM D 610 01: Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces.
- 3) ASTM D714-02e1 Standard Test Method for Evaluating Degree of Blistering of Paints

Description of sample:

Received two (2) set samples of Prepainted Galvanized Steel Sheet for

testing, which were marked as:

Brand

Marking

1. Everfresh

3 pieces Sample G (75mm x 150mm)

Clean Colorbond

3 pieces Sample B (75mm x 150mm)

Date received

24th April 2006

Job No.

J20065080419

Issue date

23rd June 2006

(ABDUL AZIZ HARON)

Senior Technical Executive

(HAHNAS MAHBUT)

Manager

Chemical Testing Section

Building 16

SIRIM OAS International Sdn. Bhd.

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Test Results

Product

: Prepainted Galvanized Steel Sheet

Brand

: Everfresh

Marking

: 3 pieces Sample G (75mm x 150mm)

Test Method

: ASTM B117-03: Standard Practice for Operating Salt Spray (Fog) Apparatus

Test condition:

Duration of exposure

: 1000 hours

Temperature exposure zone

: 35°C

Salt solution used

: 5% of NaCI

pH of collected solution

: 6.8

Volume of salt collected in ml/h/80 cm²

: 1.3 ml/hr

No.	Type of test	Results
1.	Salt Spray Resistance Test	
1.1	Evaluating degree of rusting on painted steel surface based on ASTM D 610-01*	There was no red rust present. The evaluation of white rust was at Rust Grade 9-G (0.03% Rusted)
1.2	Evaluating Degree of Blistering of Paints based on D714-02e1	There were blisters observed at rating size 2 - few.

Note: * The degree of rusting grade based on ASTM D610 - 01 is depicted in the Appendix.

ABDUL AZIZ HARON
Senior Technical Executive
Chemical Testing Section

SIRIM QAS International Sdn. Bhd.

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Test Results

Product

: Prepainted Galvanized Steel Sheet

Brand

: Everfresh

Marking

: 3 pieces Sample G (75mm x 150mm)

Test Method

: ASTM B117-03: Standard Practice for Operating Salt Spray (Fog) Apparatus



ABDUL AZIZ HARON
Senior Technical Executive
Chemical Testing Section
SIRIM QAS International Sdn. Bhd.

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Test Results

Product

: Prepainted Galvanized Steel Sheet

Brand

: Clean Colorbond

Marking

: 3 pieces Sample B (75mm x 150mm)

Test Method

: ASTM B117-03: Standard Practice for Operating Salt Spray (Fog) Apparatus

Test condition:

Duration of exposure : 1000 hours Temperature exposure zone : 35°C Salt solution used : 5% of NaCI : 6.8 pH of collected solution

Volume of salt collected in ml/h/80 cm²

: 1.3 ml/hr

No.	Type of test	Results
1.	Salt Spray Resistance Test	
1.1	Evaluating degree of rusting on painted steel surface based on ASTM D 610–01*	There was no red rust present. The evaluation of white rust was at Rust Grade 9-G (0.03% Rusted)
1.2	Evaluating Degree of Blistering of Paints based on D714-02e1	There were blisters observed at rating size 6 - few.

* The degree of rusting grade based on ASTM D610 - 01 is depicted in the Appendix.

ABDUL AZIZ HARON Senior Technical Executive Chemical Testing Section SIRIM QAS International Sdn. Bhd.

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Test Results

Product

: Prepainted Galvanized Steel Sheet

Brand

: Clean Colorbond

Marking

: 3 pieces Sample B (75mm x 150mm)

Test Method

: ASTM B117-03: Standard Practice for Operating Salt Spray (Fog) Apparatus



ABDUL AZIZ HARON
Senior Technical Executive
Chemical Testing Section
SIRIM QAS International Sdn. Bhe

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Appendix

Test Method

: ASTM D 610 - 01: Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces.

