

TEST REPORT

REPORT NUMBER:160914005SHF-BP-1-R1

ORIGINAL ISSUE DATE:2016-10-25

REVISED DATE:2016-10-26

EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai
Plant 7, No. 6958 Daye Road, Fengxian District, Shanghai, China

RENDERED TO

Xincai Aiken Metal Technology Co., LTD

North of Yueliangwan Road, Industry Cluster Area, Xincai, Henan, China

PRODUCT EVALUATED

HNAIKEN ZINC

EVALUATION PROPERTY

As requested by the applicant, for details refer to attached pages(s).

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Report Template Revision Date: 2016/9/1



Test Report

Report Number: 160914005SHF-BP-1-R1

Report Date: 2016-10-26

| | |
|---------------------------|--|
| Applicant: | Xincai Aiken Metal Technology Co., LTD |
| Applicant Address: | North of Yueliangwan Road, Industry Cluster Area, Xincai, Henan, China |
| Attn: | Kong Jinghui |

| | |
|----------------------------|-------------------------|
| Sample information: | |
| Product: | HNAIKEN ZINC |
| Model: | / |
| Specification: | 4mm/0.7mm/0.5mm |
| Sample Quantity: | 20 pcs |
| Sample ID: | S160914005SHF-001~020 |
| Date Received: | 2016/09/13 |
| Date Test Conducted: | 2016/09/14 ~ 2016/10/25 |

| |
|---|
| Conclusion: |
| For details refer to attached page(s). |
| Amendment to Report No. 160914005SHF-BP-1 (Insert section view of test specimen) |
| The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified. |

Test Report

Report Number: 16914005SHF-BP-1-R1
 Report Date: 2016-10-26

Test Items, Method and Results:

Test Item: Bond strength

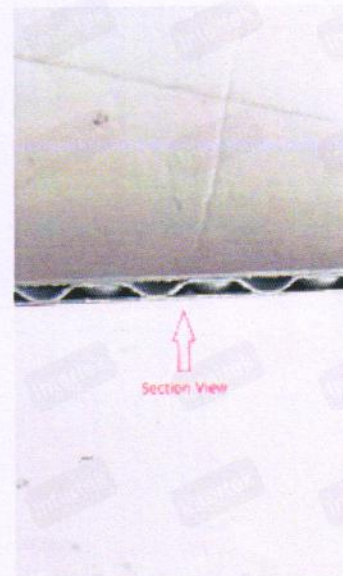
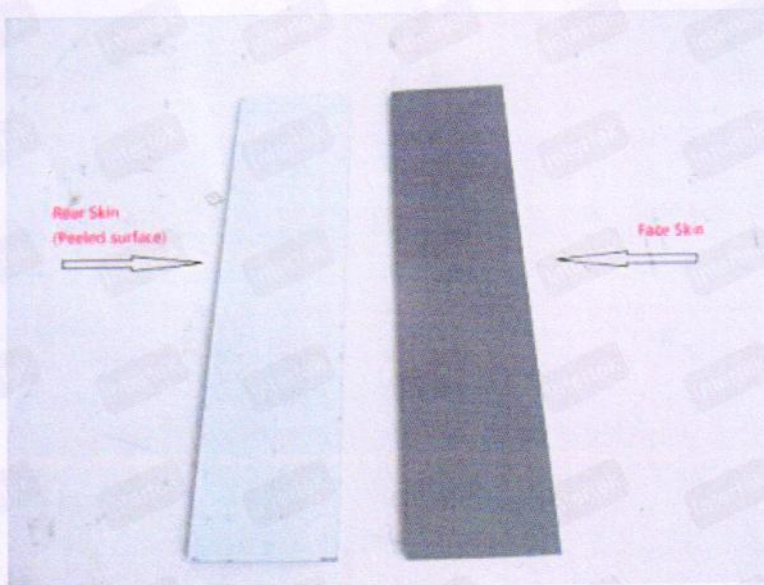
Test Method: In accordance with Section 4.5 of ICC-ES AC 25 and ASTM D1781-98(2012)

Test Condition: Exposure at a constant 21°C and 50% RH for 48 hours

| Test Result | Test Requirement ¹ | Verdict |
|-------------------------------|---|---------|
| Min. peel torque: 161 N-mm/mm | Avg. peel torque \geq 100 N-mm/mm, Individual values shall be within 15% of average value, or the lowest test value shall be used. | Pass |
| Max. peel torque: 214 N-mm/mm | | |
| Avg. peel torque: 189 N-mm/mm | | |
| Max. deviation: 15% | | |

Note:

1. The requirement was cited from Section 4.5 of ICC-ES AC 25, Acceptance Criteria for Metal Composite Material (MCM), Approved October 2010
2. Peeled surface was Rear-Skin as photo below:



Test Report

Report Number:16914005SHF-BP-1-R1

Report Date:2016-10-26

Test Items, Method and Results:

Test Item: Bond strength after freeze-thaw test

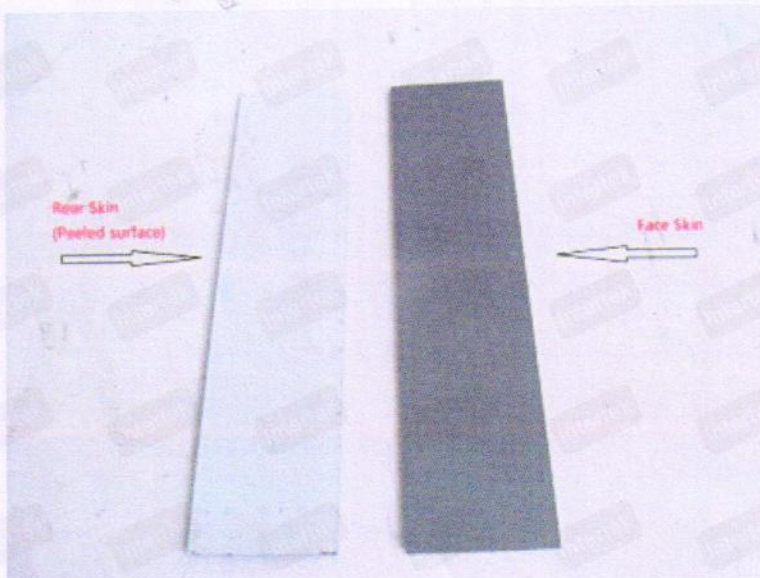
Test Method: In accordance with Section 4.6 of ICC-ES AC 25 and ASTM D1781-98(2012)

Test Condition: Specimens shall be subjected to 10 freeze-thaw cycles before bond strength test, where each cycle is consists of exposure to air at 49°C for a minimum of 8 hours, followed by submersion in water at (23.9±0.6)°C for 8 hours, and exposure to air at -28.9°C for 16 hours.

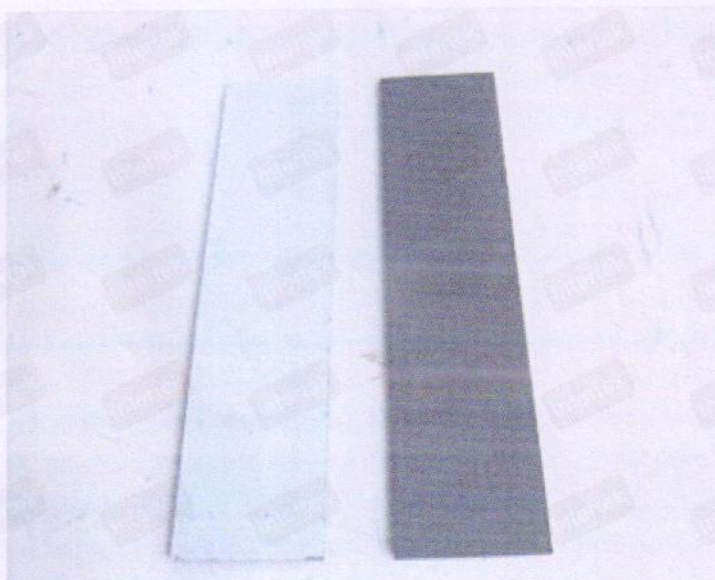
| Test Result | Test Requirement ¹ | Verdict |
|---|--|---------|
| No delamination, or indications of delamination, within or between components | No delamination, or indications of delamination, within or between components | Pass |
| Min. peel torque: 134 N-mm/mm | Avg. peel torque ≥ 100 N-mm/mm Individual peel torque ≥ 80 N-mm/mm Individual values shall be within 15% of average value, or the lowest test value shall be used. | |
| Max. peel torque: 162 N-mm/mm | | |
| Avg. peel torque: 150 N-mm/mm | | |
| Max. deviation: 11% | | |

Note:

- The requirement was cited from Section 4.6 of ICC-ES AC 25, Acceptance Criteria for Metal Composite Material (MCM), Approved October 2010
- Peeled surface was Rear-Skin as photo below:



Appendix A: Sample received photo



Section View

Approved by:

Sun Sun

Name: Sun Sun

Title: Approver



Sally Xie

Name: Sally Xie

Title: Reviewer

Mason Wang

Name: Mason Wang

Title: Project Engineer

The End of Report

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