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检测
TESTING
CNAS L0690

TEST REPORT

Report No.: WT2023B01B01907E

Entrusted by:

Yaret Industrial Group Co., Ltd

Sample Name:

Roller coated aluminum plate

Test Type:

Entrustment test

China Testing & Certification International Group Co., Ltd.
National Research Center of Testing Techniques for
Building Materials




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| | | | |
|----------------------|--|-----------------------|---|
| Sample(s) Name | Roller coated aluminum plate | Test Type | Entrustment test |
| Client | Yaret Industrial Group Co. ,Ltd | Brand |  |
| Manufacture | Jiangsu Yaret Technology Industrial Park Co. ,LTD | Sample State | Meet the requirements of testing |
| Receiving Date | October 20, 2023 | Quantity of sample(s) | 75mm×125mm 30 PCS. 300mm×300mm 3 PCS. |
| Production Date | September 8th, 2023 /20230908A1 | Model/Size | Fluorocarbon coating |
| Test Method(s) | The method for the test items are detailed in the data page(s). | Test Date | October 26-31, 2023 |
| Judgment Standard(s) | AAMA2605-20 specification for ultra high performance organic coatings on aluminum profiles and aluminum plates for construction | | |
| Test Item(s) | Test items are detailed in data pages. | | |
| Test Result(s) | <div><div>* Upon testing, the test result of gloss tolerance is shown in page 2, other test results comply with the requirements of AAMA2605-20, Test result are detailed in data pages.*</div><div><div><div>Date of issue: 2023-11-03</div><div>检测专用章</div><div>11010510151921</div></div></div></div> | | |
| Remarks: (Blank) | | | |

Approved by



Checked by



Compiled by



Address: No.1 Guanzhuang Dongli ,Chaoyang District, Beijing, China
Tel: 00-86-10-51167681

P.C.: 100024

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| No. | Test Item(s) | Requirements of Standard(s) | Test Result(s) | Individual Conclusion | Test method(s) |
|-----|-------------------|--|--|-----------------------|--|
| 1 | Appearance | Coatings shall be visibly free from flow lines streaks, blisters or other surface imperfections in the dry-film state on exposed surfaces when observed at a distance of 3 m(10 ft.) from the metal surface and inspected at an angle of 90° to the surface. | Coatings is visibly free from flow lines streaks, blisters or other surface imperfections in the dry-film state on exposed surfaces when observed at a distance of 3 m(10 ft.) from the metal surface and inspected at an angle of 90° to the surface. | Pass | AAMA2605-20 5.2 |
| 2 | Coating thickness | 80% of all measured values shall not be less than 30μm less than 25μm The measured value of m should be less than 5% | Avg.31μm Range: 29μm~32μm | Pass | AAMA2605-20 5.3 ASTM D7091-13 |
| 3 | Color Uniformity | Color difference value ≤2.0 | 0.17 | Pass | AAMA2605-20 8.1 ASTM D2244-11 Appendix X1.1 |
| 4 | Specular Gloss | Nominal value ±5 | range: 23.6~26.0 Avg. 24.4 | — | AAMA2605-20 8.2 ASTM D523-14 |
| 5 | Dry Film Hardness | ≥F | 2H (Eagle pencil) | Pass | AAMA2605-20 8.3 ASTM D3363-05(2011)e2 |

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| No. | Test Item(s) | | Requirements of Standard(s) | Test Result(s) | Individual Conclusion | Test method(s) |
|-----|--------------------------|------------------------|--|---|-----------------------|--|
| 6 | Film Adhesion | Boiling Water Adhesion | No less than 4B | 5B | Pass | AAMA2605-20 8.4 ASTM D3359-17 |
| | | Wet Adhesion | No less than 4B | 5B | Pass | |
| | | Dry Adhesion | No less than 4B | 5B | Pass | |
| 7 | Impact Resistance | | 18N-m, There shall be no removal of film from substrate. | 18N-m, No removal of film from substrate. | Pass | AAMA2605-20 8.5 |
| 8 | Abrasion Resistance | | The coating shall either withstand a volume of 80 L of sand | The coating withstands a volume of 80 L of sand | Pass | AAMA2605-20 8.6 ASTM D968-17 |
| 9 | Muriatic Acid Resistance | | There shall be no blistering and no visual change in appearance when examined by the unaided eye. | There is no blistering and no visual change in appearance when examined by the unaided eye. | Pass | AAMA2605-20 8.7.1 |
| 10 | Mortar resistance | | The residual mortar or lime on the surface shall be easy to remove without adhesion reduction or obvious change on the surface | Mortar and other residues are easy to remove, without adhesion reduction and surface obvious change | Pass | AAMA2605-20 8.7.2 ASTM D3359-17 |
| 11 | Nitric acid resistance | | Unchanged $\Delta E \leq 5$ | Unchanged $\Delta E = 0.95$ | Pass | AAMA2605-20 8.7.3 ASTM D 2244-11 |

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| No. | Test Item(s) | Requirements of Standard(s) | Test Result(s) | Individual Conclusion | Test method(s) |
|-----|---------------------------|--|--|-----------------------|---|
| 12 | Detergent Resistance | There shall be no loss of adhesion of the film to the metal , no blistering and no significant visual change in appearance when examined by the unaided eye | There is no loss of adhesion of the film to the metal , no blistering and no significant visual change in appearance when examined by the unaided eye | Pass | AAMA2605-20 8.7.4 ASTM D2248-01a(2013) ASTM D3359-17 |
| 13 | Window Cleaner Resistance | There shall be no blistering or noticeable change in appearance when examined by the unaided eye and no removal of film under the tape within or outside of the cross-hatched area . | There is no blistering or noticeable change in appearance when examined by the unaided eye and no removal of film under the tape within or outside of the cross-hatched area . | Pass | AAMA2605-20 8.7.5 ASTM D3359-17 |

(Blank)

Annotations: Test address: No.1, Guanzhuang Dongli, Chaoyang District, Beijing, China/100024

End of the Report

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