

# DALLAS LABORATORIES, INC.

Consultants and Technologists  
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Submitted by: SAPA  
142 Sapa Drive  
Delhi, LA 71232

Date: June 11, 2014

Attn: Mike Copes

Report No.: 46934  
P.O. No.: 820214105

## REPORT

### Sample:

Anodized Finish, Class II, Clear  
Coating: SAPA 204-R1 Clear Anodize, 18 Amp/ft<sup>2</sup> (lot #21690064)  
Pre-Treatment: Acid etch/Caustic etch  
Drawing: #TSW-222  
Production Date: 3/17/14

### A. PROCEDURE

Submitted sample was tested according to AAMA 611-12, "Voluntary Specification for Anodized Architectural Aluminum, Class II, Designation A31, all sections, except 8.7 Weather Exposure.

### B. RESULTS

<u>Test</u>	<u>Results</u>	<u>AAMA 611-12 (II) Specification Requirements</u>
8.1 Oxide Coating Thickness (mil) (ASTM B487)	0.70	0.40 min.
8.2 Oxide Coating Weight & Apparent Density (ASTM B137)	Pass	
8.2.2 Coating Weight (mg/in <sup>2</sup> )	27.1	15.5 min.
8.2.3 Apparent Density (g/in <sup>3</sup> )	38.7	38.0 min.
8.3 Color Uniformity ( $\Delta E$ ) (AATCC TM173)	1.2	5.0 max.
8.4 Gloss Uniformity (ASTM D523, 60°)	2.3	$\Delta$ 15.0 max.
8.5 Abrasion Resistance (Michael Clark Abrasion Test)	Pass	No bite or chalk dust pick-up

<u>Test</u>	<u>Results</u>	<u>AAMA 611-12 (II) Specification Requirements</u>
8.6 Corrosion Resistance (ASTM B117, 1000 hrs. using 5% salt solution)	Pass (No spots or pits)	No spots or pits larger than 1 mm
8.8 Seal Test (mg/in <sup>2</sup> ) (ASTM B680)	0.8	2.6 max loss
8.9 Craze Resistance, °F	Pass	No crazing @ 170° min

Date Testing Started: 3/31/14


Date Testing Completed: 6/11/14

Date Test Report Expires: 6/11/17

Sampled by: Initial Submittal

The test results indicate that the sample tested is in compliance with all of the performance requirements of AAMA 611-12 Class II except for Section 8.7 as procedurally noted.

**DALLAS LABORATORIES, INC.**

  
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Kevan W. Jones, Vice President

Analyst: GF, TL  
KJ: js