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# Test Report: TR 21844

Delivered To: **Caribbean Energy Solutions**

Primary Point of Contact: **Joe Nunes**

Reference Quotation Number: **111317CARES_Rev4**

September 27, 2019

Author: _____

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## Objective:

To evaluate the salt fog resistance of coated aluminum panels

## Samples Tested:

(3) 4”x6” Aluminum samples from Caribbean’s Energy Solutions
(2) 4”x6” Aluminum samples from a competitor

## Test Procedure:

The samples were exposed in accordance with ASTM B117 “Standard Practice for Operating a Salt Spray (Fog) Apparatus” for 12,000hrs (500 days). The samples were evaluated and photographed every ~250hrs.

## Test Results:

After 12,000hrs of exposure Caribbean Energy Solutions exhibited far less oxidation and coating degradation when compared to the competitors panels. In this lab’s opinion a coating subjected to the exposure of 12,000hrs with a thickness of 12µ (micron) with only minor visible defects shows superior performance potential.

For a comparison, the majority of automobile frames and components are coated with e-coat around the 20µ - 40µ micron range and rarely last longer than ~5000hrs in salt spray (from our experience).