

June 14, 2023

File Number: 604J069392

SAMRAT TRADE LTD.
UNIT 111 19110 24 AVENUE
SURREY, BC
V3Z 3S9

Attention: Paramjit Singh

Re: Salt Spray Testing of Drywall Screws**1.0 INTRODUCTION**

Ten 6x1- $\frac{1}{4}$ coarse threaded drywall screws were submitted to Acuren for salt fog spray testing in accordance with ASTM B117-19 Standard Practice for Operating Salt Fog Spray Apparatus. The screws were coated with a black phosphate coating.

2.0 SALT FOG TEST

Testing was carried out in a HARSHAW Environmental Chamber Model 22 S/N: 224029 under the operating conditions shown in Table 1.

Table 1: Testing Conditions in Salt Spray Chamber

Cabinet Temp. °C	Collection Rate ml/hour/80cm ²	%NaCl	pH
35	1.24	4.8	6.8

The screws were attached to a Teflon rope and positioned upright in the chamber at an angle of 25° from vertical. The screw arrangement before the start of the test is shown in Figure 1 in the Appendix. The salt fog exposure was carried out for 48 hours with the interim inspection of the screws performed after 24 hours of exposure. On completion of testing, the screws were rinsed with warm water, dried, and the principal inclined area was examined for the presence of corrosion marks.

The photograph of the screws after removal from the salt spray chamber after 48-hour exposure is shown in Figure 2. The results of the visual inspection of the tested screws are summarised in Table 2.



SAMRAT TRADE LTD.

Salt Spray Testing of Drywall Screws

Page 2 of 4

Table 2: Salt Spray Test Results

Type of Drywall Screw	Total tested	After 24h		After 48h		Failure Rate %
		Pass	Fail	Pass	Fail	
Black Phosphate: 6x1-1/4 Coarse Thread	10	10	0	10	0	Pass

The 6x1-1/4 Black Phosphate Coarse Thread screws pass the test and did not show any corrosion marks over the principal surface of any of the tested screws.

Yours truly,

ACUREN GROUP INC.

Maria Kincer, MSc
Enclosure

Jason Light, P.Eng.

Client acknowledges receipt and custody of the report or other work ("Deliverable"). Client agrees that it is responsible for assuring that acceptance standards, specifications and criteria in the Deliverable and Statement of Work ("SOW") are correct. Client acknowledges that Acuren is providing the Deliverable according to the SOW, and not any other standards. Client acknowledges that it is responsible for the failure of any items inspected to meet standards, and for remediation. Client has 15 business days following the date Acuren provides the Deliverable to inspect it, identify deficiencies in writing, and provide written rejection, or else the Deliverable will be deemed accepted. The Deliverable and other services provided by Acuren are governed by a Master Services Agreement ("MSA"). If the parties have not entered into an MSA, then the Deliverable and services are governed by the SOW and the "Acuren Standard Service Terms" (www.acuren.com/service/terms) in effect when the services were ordered.

The Client Representative who receives this report is responsible for verifying that any acceptance standards listed in the report are correct, and promptly notifying Acuren of any issues with this report and/or the work summarized herein. The owner is responsible for notifying Acuren in writing if they would like their samples returned or placed into storage (at their cost) otherwise, all samples/specimens associated with this report will be disposed of 60 days after the report date.

NOTES:

- a) This report shall not be reproduced except in full without the prior written approval of Acuren Group Inc.
- b) Results in this report relate only to the item(s) tested as provided by the client unless otherwise indicated.



APPENDIX

FIGURES 1 – 2



Figure 1 Drywall screws setting before commencement of testing.



Figure 2 Black Phosphate 6 x 1- $\frac{1}{4}$ Coarse Thread drywall screws after 48-hour exposure to salt fog.