

Progressive Engineering Inc.

ASTM B117 Salt Fog Test

Client: Arcitell

Salt Solution: **5% NaCl**

Solution Flow Rate¹: **1.7 mL/hr.**

Average Solution pH Level: **6.75**

Sample Description: Four (4) panels cut from Qora Ashlar Medium Joint Stone Cladding Panels were provided for testing by Bradley Wear of ICC NTA, LLC. Each Qora Cladding Panel measured approx. 5" long by 4" in width. The specimens were silicone coated on the sides, back and labeled 1 thru 4 by the client. (see attached pictures for more

Test Details: The testing was performed following the standard procedure defined in ASTM B117 for salt solution percentage, temperature, and pH of the solution. The samples were inspected at 24 hour intervals. The duration of the test was 306 Hours.

Sample

Received on: 5/7/2021

TEST OBSERVATIONS

Date	Elapsed Time (hrs)	Sample ID	Comments / Observations
5/13/2021	0 hr		Samples were positioned approx 15° from vertical into specimen racks, inside the salt fog chamber and exposure was started.
5/14/2021	23 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/15/2021	48 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/16/2021	72 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/17/2021	100 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/18/2021	120 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/19/2021	144 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/20/2021	167 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/21/2021	191 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.

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Sample

Received on: 5/7/2021

TEST OBSERVATIONS

Date	Elapsed Time (hrs)	Sample ID	Comments / Observations
5/22/2021	238 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/23/2021	262 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/24/2021	285 hr	1	No noticeable changes.
		2	No noticeable changes.
		3	No noticeable changes.
		4	No noticeable changes.
5/26/2021	306 hr	1	Final Inspection: Qora Cladding Panel was rinsed off and air dried. No deleterious effects or other distress that will affect performance as an exterior wall covering was visible.
		2	Final Inspection: Qora Cladding Panel was rinsed off and air dried. No deleterious effects or other distress that will affect performance as an exterior wall covering was visible.
		3	Final Inspection: Qora Cladding Panel was rinsed off and air dried. No deleterious effects or other distress that will affect performance as an exterior wall covering was visible.
		4	Final Inspection: Qora Cladding Panel was rinsed off and air dried. No deleterious effects or other distress that will affect performance as an exterior wall covering was visible.

See attached pictures for additional details.

¹ The acceptable Solution Rate is 1.0-2.0 mL per 80cm² of horizontal collection area per hour.

* WC/SB = White Corrosion/Salt Build-up

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0 Hours_As Received #1



306 Hours_Final Inspection #1



0 Hours_As Received #2



306 Hours_Final Inspection #2



0 Hours_As Received #3



306 Hours_Final Inspection #3

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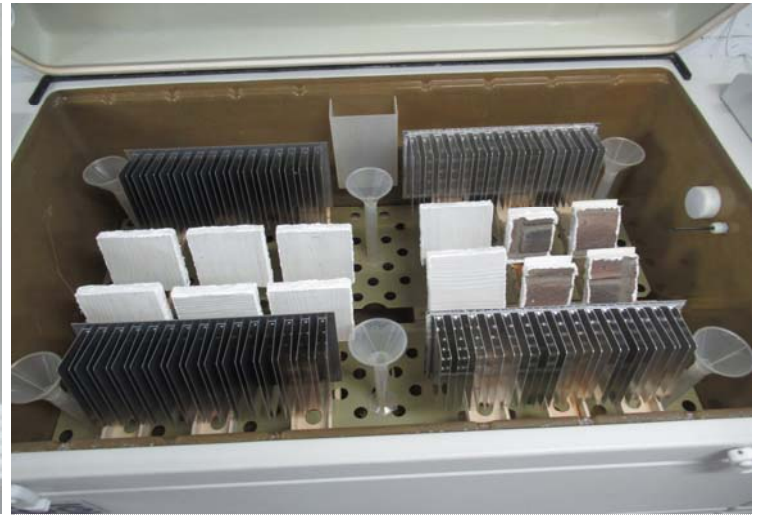
0 Hours_As Received #4



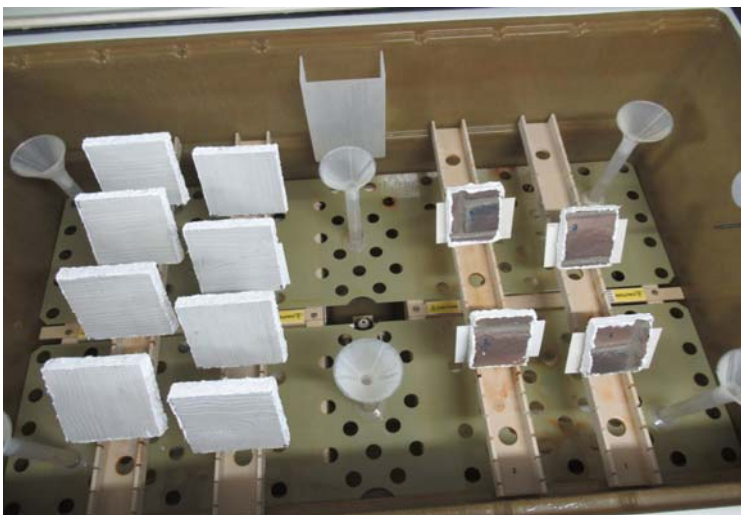
306 Hours_Final Inspection #4



306 Hours_Final Inspection



Typical Setup For Salt Fog Test



Typical Setup For Salt Fog Test