

Farabaugh Engineering and Testing Inc.

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PERFORMANCE TEST REPORT

ASTM B117-19 STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS

ON

Various Vents/ Pipe Flashings

FOR

Lifetime Tool and Building Products 250 AIRPORT ROAD WINCHESTER, VA 22602

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PERFORMANCE TESTING

Introduction

Corrosion resistance tests were conducted at the specified dates at Farabaugh Engineering and Testing, Inc., an independent test laboratory. A description and summary of those tests are contained here-in.

Purpose

The purpose of this testing was to determine the corrosion resistance of multiple products in accordance with ASTM B-117 "Standard Practice for Operating Salt Spray (Fog) Apparatus". The following is the summary of the salt spray testing that was performed at FET's test facility in McKeesport, PA on multiple products supplied by Lifetime Tool and Building Products.

Client

Lifetime Tool and Building Products 250 AIRPORT ROAD WINCHESTER, VA 22602

<u>Test Specimen</u>

The specimens for the test were dryer vents and pipe flashings of different types, supplied by Lifetime Tool and Building Products. These specimens were not the product of Lifetime Tool and Building Products

Start Test Date: October 10, 2023

Test Procedure

The tests were conducted in accordance with ASTM B-117-19 "Standard Practice for Operating Salt Spray (Fog) Apparatus" as provided herein.

Salt Spray Chamber Testing Conditions

Type of Water: Deionized Water

Type of Salt: Morton Salt Culinox Salt (Food Grade Salt)

Chamber	Humidifying	Tower	Near	Far	Condensate Collection	on Data
Temp.	Temp.	Air	Amount	Amount	Specific Gravity	pН
95+2-3 F	114-121 F	12-18 psi	1-2ml/hr	1-2ml/hr	1.0255-1.400	6.5-7.2

Preparation of Test Specimens:

The specimen was wiped off with paper towel and placed into salt spray chamber. All specimens placed into the chamber were supported at approximately 15 to 30 degrees. Each day all specimens were checked and observations were recorded. After the tests were completed, the specimens were cleaned under deionized water and wiped dry with paper towel.

Test Results

Specimen: A

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
120hrs	WC
240 hrs	WC
552 hrs	WC, RR
720 hrs	WC, RR
816 hrs	WC, RR
960 hrs	WC, RR
1000 hrs	WC, RR

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: Red Rust was observed on interior pipe flashing at 552 hours of exposure. No other red rust appeared after the exposure lasted 1000 hours.

Specimen: B

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
120hrs	WC
240 hrs	WC
552 hrs	WC, RR
720 hrs	WC, RR
816 hrs	WC, RR
960 hrs	WC, RR
1000 hrs	WC, RR

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: Red Rust was observed on interior pipe flashing at 552 hours of exposure. No other red rust appeared after the exposure lasted 1000 hours.

Test Results

Specimen: C

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
120hrs	WC
240 hrs	WC
552 hrs	WC, RR
720 hrs	WC, RR
816 hrs	WC, RR,
960 hrs	WC, RR
1000 hrs	WC, RR

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: Red Rust was observed on interior pipe flashing at 552 hours of exposure. No other red rust appeared after the exposure lasted 1000 hours.

Test Results

Specimen: D

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
72hrs	WC, RR
240 hrs	WC, RR
552 hrs	WC, RR
720 hrs	WC, RR
816 hrs	WC, RR
960 hrs	WC, RR
1000 hrs	WC, RR

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: Red Rust was observed at 72 hours of exposure.

Test Results

Specimen: E

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
120hrs	WC
240 hrs	WC
552 hrs	WC
720 hrs	WC,
816 hrs	WC, PB
960 hrs	WC, PB
1000 hrs	WC, PB

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: No Red Rust was observed after 1000 hours of exposure.

Test Results

Specimen: F

Date Started: October 10, 2023

Hours	Observations
24 hrs	NC
48 hrs	NC
120hrs	WC
240 hrs	WC
552 hrs	WC
648 hrs	WC, RR
816 hrs	WC, RR, PB
960 hrs	WC, RR, PB
1000 hrs	WC, RR, PB

Code: NC - No Corrosion, WC - White Corrosion, RR - Red Rust, BR - Black Rust, PB- Paint Blister

Note: Red Rust occurred on rivet head at 648 hours of exposure. Red Rust observed on mesh screen at 888 hours Red Rust was also observed at 960 hours on vent hood.