

HOLLAENDER MANUFACTURING CO. TEST REPORT

SCOPE OF WORK

UL 2703 SECTION 19.1 SALT SPRAY TEST – SEVERITY 5 ON ALUMINUM MAGNESIUM 535
FINISH ON T-FITTINGS

REPORT NUMBER

106386691MID-001.1

TEST DATE(S)

01/05/26 – 02/01/26

ISSUE DATE

02/04/26

[REVISED DATE]

N/A

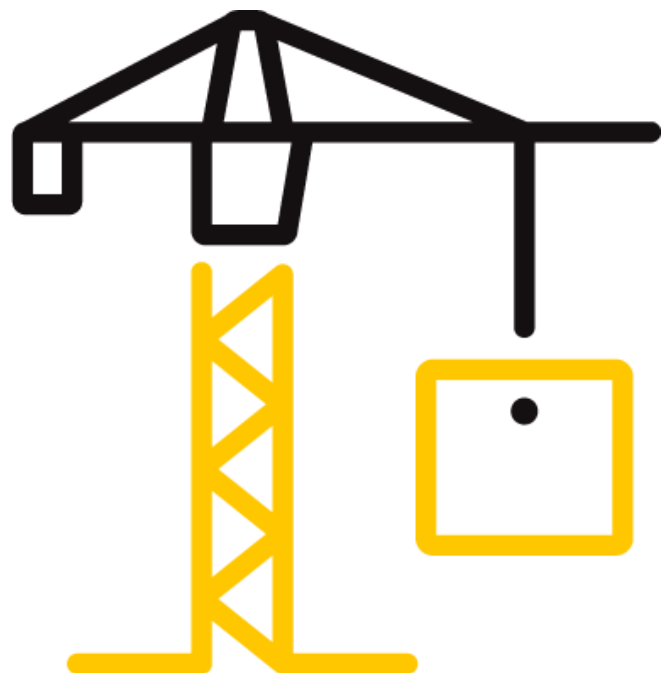
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DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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TEST REPORT FOR HOLLAENDER MANUFACTURING CO.

Report No.: 106386691MID-001.1

Date: 02/04/26

REPORT ISSUED TO

HOLLAENDER MANUFACTURING CO.

10285 Wayne Ave

PO Box 156399

Cincinnati, OH 45215

SECTION 1

SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Hollaender Manufacturing Co., 10285 Wayne Ave, PO Box 156399, Cincinnati, OH 45215 to perform testing in accordance with UL2703 Section 19.1 *Salt Spray Test*, on their Aluminum Magnesium 535 Finish on T-Fittings. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Middleton, WI.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

The Aluminum Magnesium 535 Finish on T-Fittings did not show any signs of corrosion throughout the duration of the test. The sample passes UL 2703 section 19.1 *Salt Spray Test*.

For INTERTEK B&C:

COMPLETED BY:	Quy Nguyen	REVIEWED BY:	Mark Crawford
TITLE:	Associate Engineer	TITLE:	Laboratory Supervisor
SIGNATURE:		SIGNATURE:	
DATE:	02/02/26	DATE:	02/02/26

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

UL 2703 – 2023 Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flap-Plate Photovoltaic Modules and Panels Section 19.1 *Salt Spray Test*, Underwriters Laboratories Inc

IEC 60068-2-52 International Standard – Environmental Testing Part 2 – *Salt Mist, Cyclic Severity 5*, IEC International Standard

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. The results outlined in this report apply to the sample as received. Samples were received at the Middleton Evaluation Center on 11/10/2025 in good condition verified by Sample ID# MID2511101312-001

SECTION 5

EQUIPMENT

EQUIPMENT			
DESCRIPTION - ASSET #:	Singleton Chamber - 1395	VBV:	10/7/2026

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Quy Nguyen	Intertek B&C

SECTION 7

TEST PROCEDURE

The corrosion test was run from 1/5/2026 through 2/1/2026 for a total of 28 days. The salt spray was supplied to the chamber between 17-19 psi. The salt solution consisted of 5% by weight of common salt in distilled water. The chamber was kept between 33-36°C (92- 97°F) throughout the test cycle. The pH value of the collected solution was between 6.5 and 7.2 with a specific gravity between 1.026 to 1.040.

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The samples and G90 reference plate were placed in the fog chamber for approximately 2 hours. After 2 hours of exposure, all materials were moved to a 104F @ 93% RWH environmental chamber for 20-22 hours. At the end of 5 cycles, all materials were then placed in a conditioned room of 73F @ 50% RWH. This counted as 1 full cycle. A maximum of 4 cycles were completed or until there was obvious failure of either the reference plate or the samples.

The sample was scribed along the surface with an approximately 6-inch groove to expose the underlying steel as per Section 19.1.10 and the control was scribed along the surface with an approximately 6-inch groove to expose the underlying steel. The G90 reference specimen was coated with wax along the cut edges to prevent formation of corrosion products at the edges. All test samples were placed into the chamber at a 15-degree angle from the vertical. Chamber conditions were monitored daily to ensure the environment maintained the test conditions specified by the standard.

SECTION 8**TEST RESULTS**

G90 Reference Plate Initial



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T-Fittings Initial



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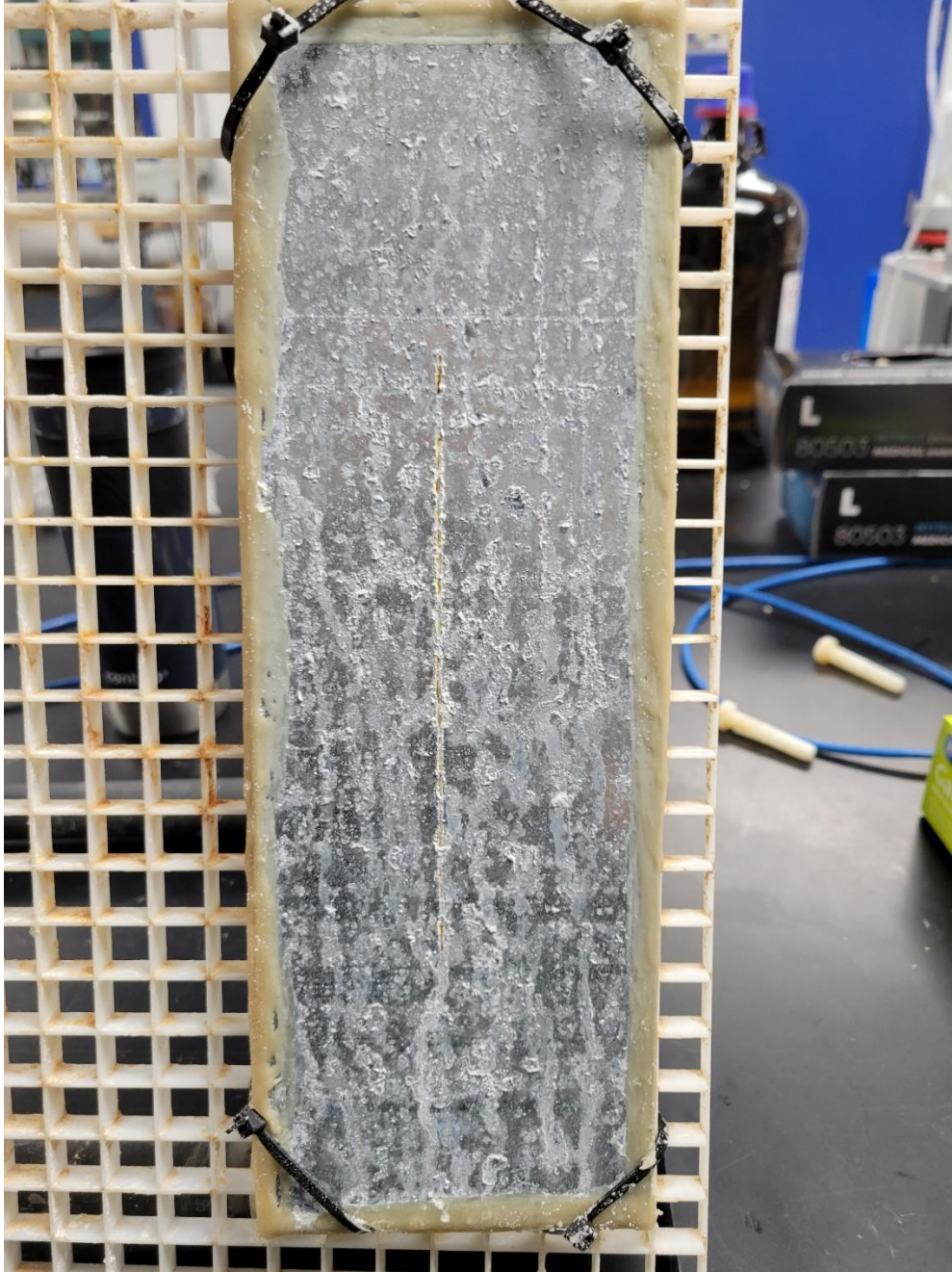


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G90 Week 1



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Week 1



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G90 Reference Plate Week 2



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T-Fittings Week 2



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Week 2



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G90 Reference Plate Week 3

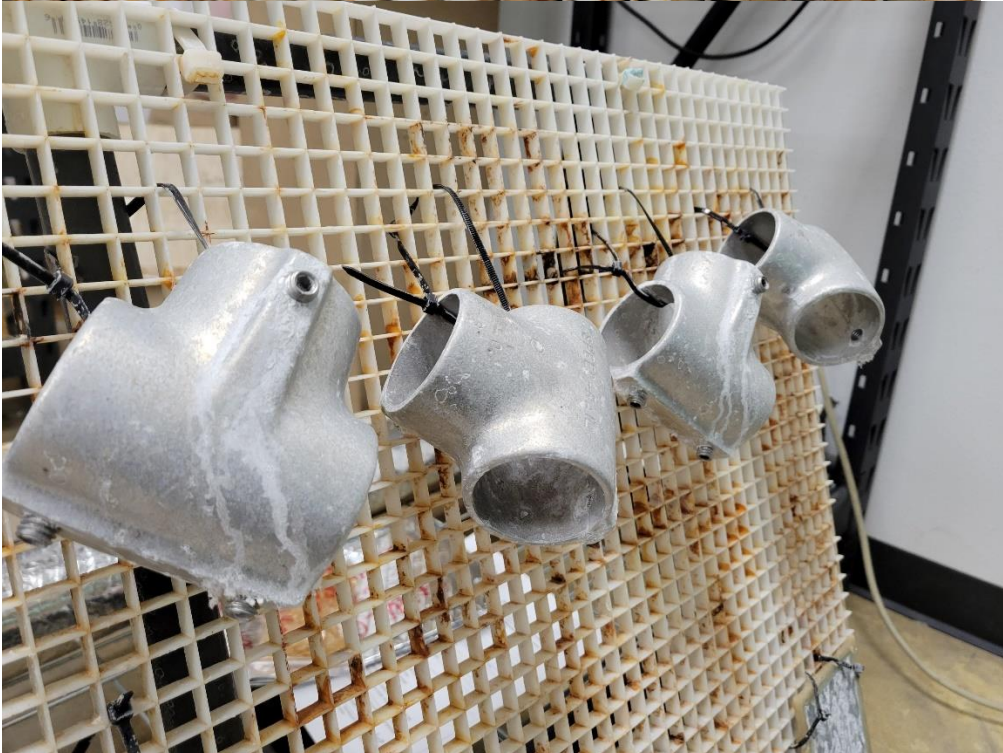


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T-Fittings Week 3



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G90 Reference Plate Final

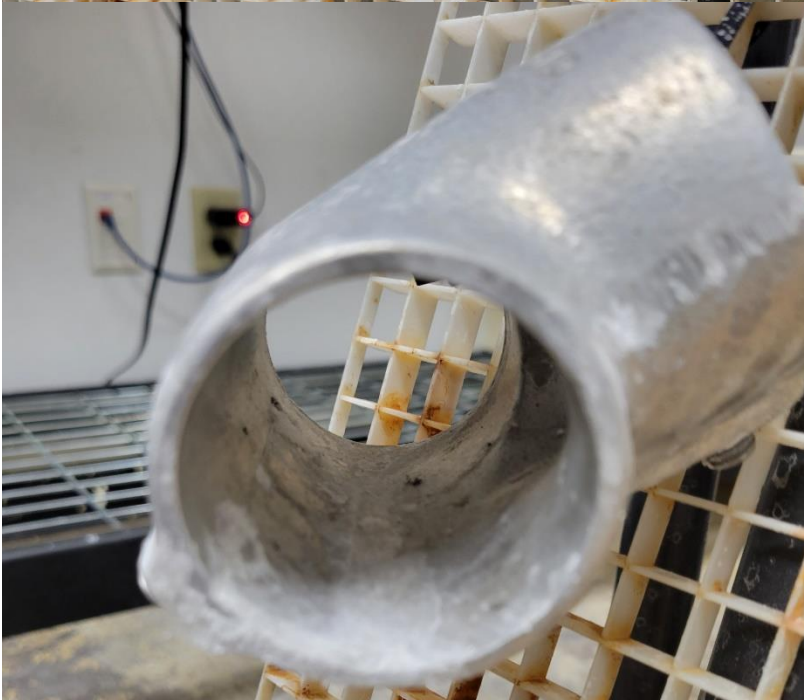
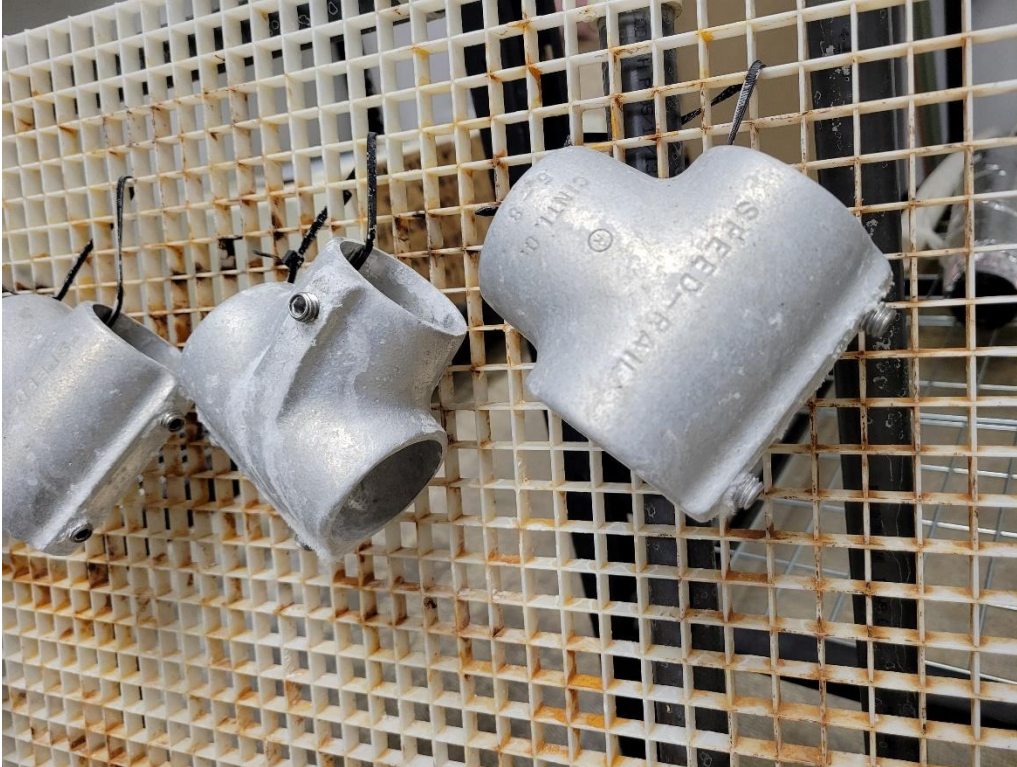


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T-Fittings Final



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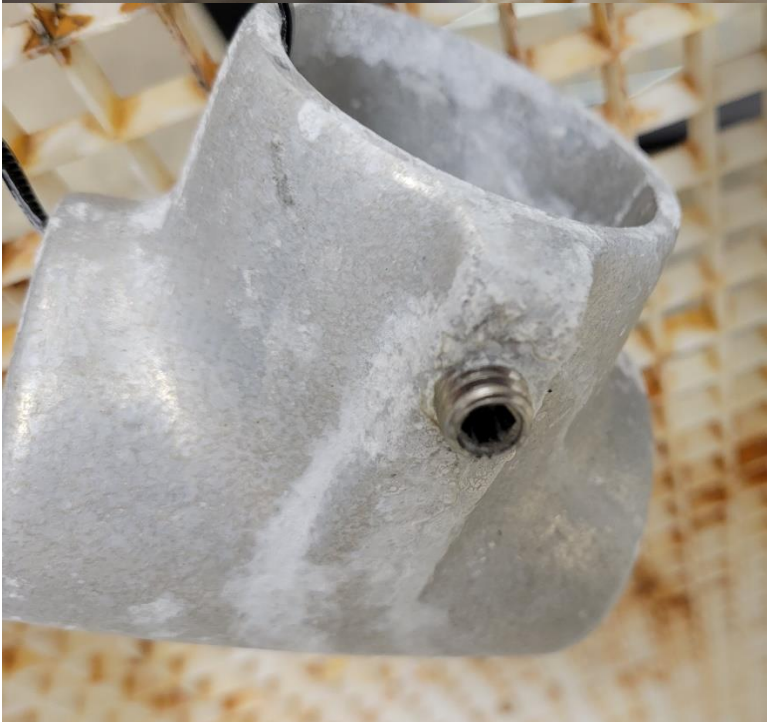


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T-Fittings Final



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T-Fittings Final





Total Quality. Assured.

8431 Murphy Drive
Middleton, Wisconsin 53562
Telephone: 608-836-4400
Facsimile: 608-831-9279
www.intertek.com/building

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SECTION 9

CONCLUSION

The T-fittings did not show any signs of corrosion throughout the duration of the test. The sample passes the requirements outlined in UL 2703 Section 19.1 *Salt Spray Test*.

SECTION 10

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	02/04/26	N/A	Original Report Issue