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GWF AG
TEST REPORT

SCOPE OF WORK
UL 2043, FIFTH EDITION, DATED SEPTEMBER 14, 2023, FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES ON UNICOCODER

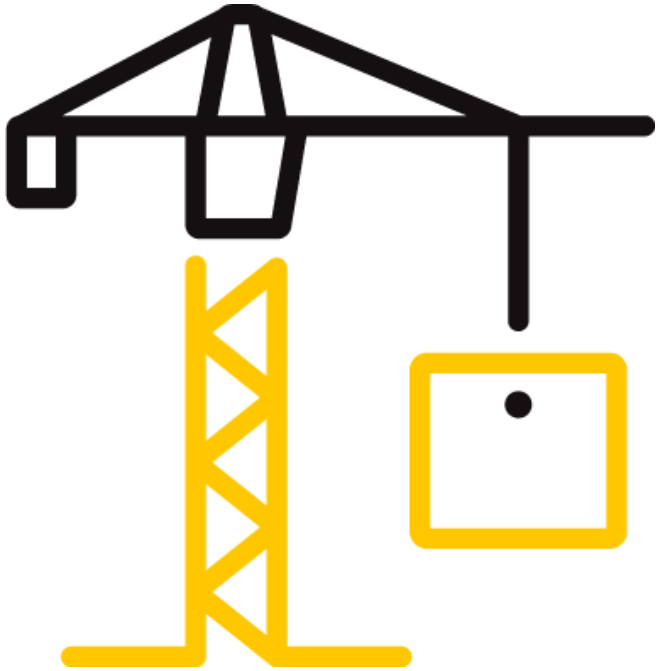
REPORT NUMBER
106380832SAT-001B

TEST DATE
11/13/2025

ISSUE DATE
11/16/2025

PAGES
10

DOCUMENT CONTROL NUMBER
GFT-OP-10C (10/03/23)



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TEST REPORT FOR GWF AG
Report No.: 106380832SAT-001B
Date: 11/16/2025

REPORT ISSUED TO

GWF AG
Obergrundstrasse 119
Luzern, Obergrundstrasse 119 CH-6005
Switzerland

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by GWF AG, to perform testing in accordance with UL 2043, Fifth Edition, Dated September 14, 2023, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, on their UNICOcoder. Results obtained are tested values and were secured by using the designated test method. The test was conducted at Intertek B&C test facility in Elmendorf, Texas.

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.

SECTION 2

SUMMARY OF TEST RESULTS

Test Run	Specimen Model	RESULTS
001B	UNICOcoder	PASSED

For INTERTEK B&C:

COMPLETED BY:	Theodore Salazar	**REVIEWED BY:**	Michael Dey
TITLE:	Technician 3	**TITLE:**	Project Engineer
SIGNATURE:	Theodore Salazar	**SIGNATURE:**	Michael Dey
DATE:	11/16/2025	**DATE:**	11/16/2025

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SECTION 3
TEST METHOD(S)

The specimen was evaluated in accordance with the following:

> **UL 2043, FIFTH EDITION, DATED SEPTEMBER 14, 2023,** *FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES*

This test method is for determining the fire performance response of discrete products (including but not limited to electrical equipment) intended to be installed in air handling spaces, such as above suspended ceilings or below floors. These products are subjected to an open flame ignition source and evaluated using a product calorimeter. The purpose of this test is to determine the rate of heat release and the rate of smoke release of the burning product samples as they relate to the requirements for fire-resistant and low-smoke-producing characteristics in accordance with the provisions of the following codes: National Electric Code, NFPA 70; the International Mechanical Code, NFPA 5000; and the Standard for the Installation of Air Conditioning and Ventilating Systems, NFPA 90A.

SECTION 4
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Theodore Salazar	Intertek B&C

SECTION 5
EQUPMENT

Equipment Type	Equipment No.	Cal. Due Date
Thermo-Hygrometer	19270722	12/26/25
Pressure Transducer	306056763	11/21/25
Data Acquisition System	02LE006	01/31/26
Flowmeter (0-8 SCFM)	63721010006	Ref. Only
Stopwatch	181512641	11/30/25

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SECTION 6
TEST PROCEDURE

All instrumentation was zeroed and calibrated prior to testing. The test specimen, after conditioning to 73°F and 50% R.H., was placed on the specified test frame / enclosure. The 12" x 12" x 4" propane test burner was centered under the specimen, and the test was started. The test specimen is exposed to a direct flame impingement with a heat release rate of 60 kW (92 cubic feet per hour). The test was conducted for 10 minutes at which time the gas burner is shut off.

SECTION 7
TEST SPECIMEN SELECTION AND DESCRIPTION

Sample was submitted to Intertek directly from GWF AG. Sample was not independently selected for testing. Samples, in good condition, were received at the Evaluation Center on 10/27/2025 (SAT2510271251-001)

The specimen consisted of an Singlejet Meter for cold or hot water applications. One specimen was provided.

For additional details, see the data and photographs in this report. See SECTION 10.

SECTION 8
TEST AND OBSERVATIONS RESULTS

Test – Specimen-001B
The specimen was placed in the test enclosure and tested at 1:39 p.m. on November 13, 2025. The ambient temperature was 73°F, with a relative humidity of 53%. The data recorded includes Smoke Release Rate (SRR), Heat Release Rate (HRR). The acceptance criteria data was calculated from these values using the formulas in UL 2043 Section 7. This data may be found in Section 9.

Observations during the test were recorded. The observations are as follows:

TIME (min:sec)	OBSERVATION
0:00	The 60-kW propane burner was ignited.
0:56	The plastic cover began to melt.
10:00	The propane burner was turned off. Test Terminated.

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SECTION 9
EVALUATION RESULTS AND CONCLUSION

ITEM	RESULTS
Peak rate of heat release (HRR_S)	11 kW
Peak rate of smoke release (SRR_S)	0.03 m^2/s
Total smoke released for first 10 minutes (TSR)	1 m^2
Peak normalized optical density*	0.08
Average normalized optical density (for first 10 minutes 10 min) *	0.00
Results	Passed

(*Informational data only, not used for acceptance criteria)

ACCEPTANCE CRITERIA

1. The peak rate of heat release (HRR_S) measured during each test shall be 100 kilowatts or less.
2. The peak smoke release rate measured during each test shall be 0.21 m^2/s or less, SRRs.
3. The total smoke release (10-minute test duration) shall be 75 m^2 or less, TSR.

Intertek Testing Services NA (Intertek) has conducted testing for GWF AG, on the UNICOcoder to evaluate heat and smoke release. Testing was conducted in accordance with UL 2043, Fifth Edition, Dated September 14, 2023, Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces. The specimen tested met the requirements of this test method.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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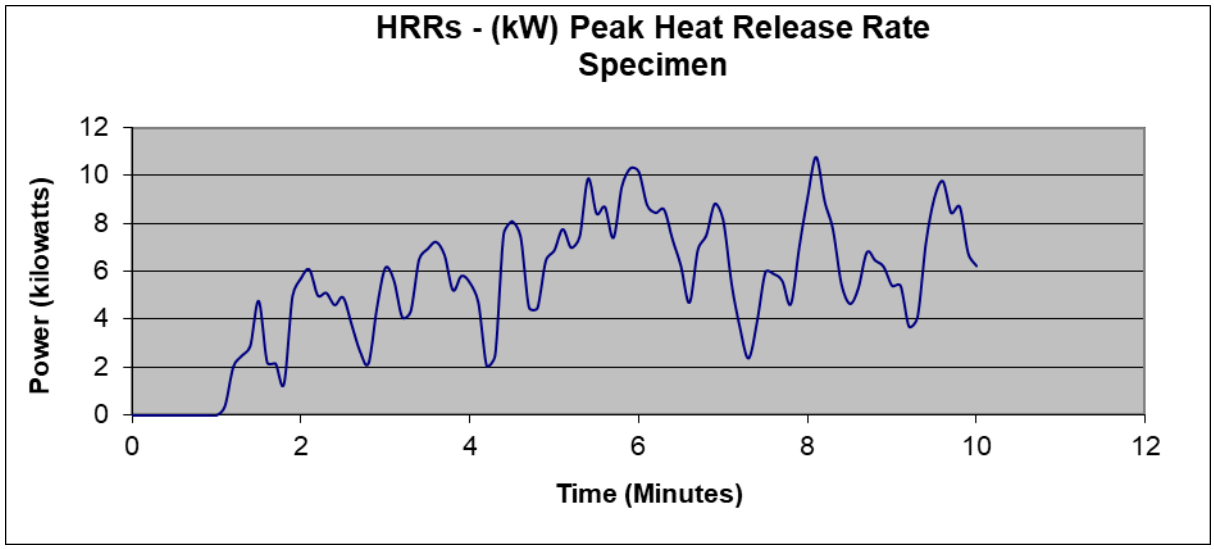
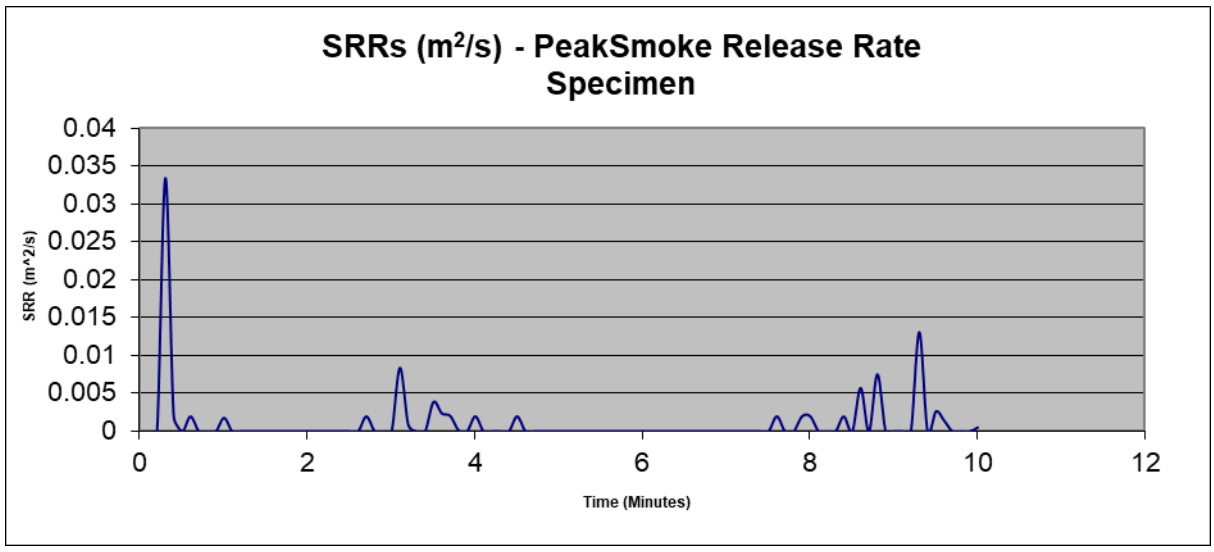
SECTION 10
TEST DATA AND PHOTOGRAPHS





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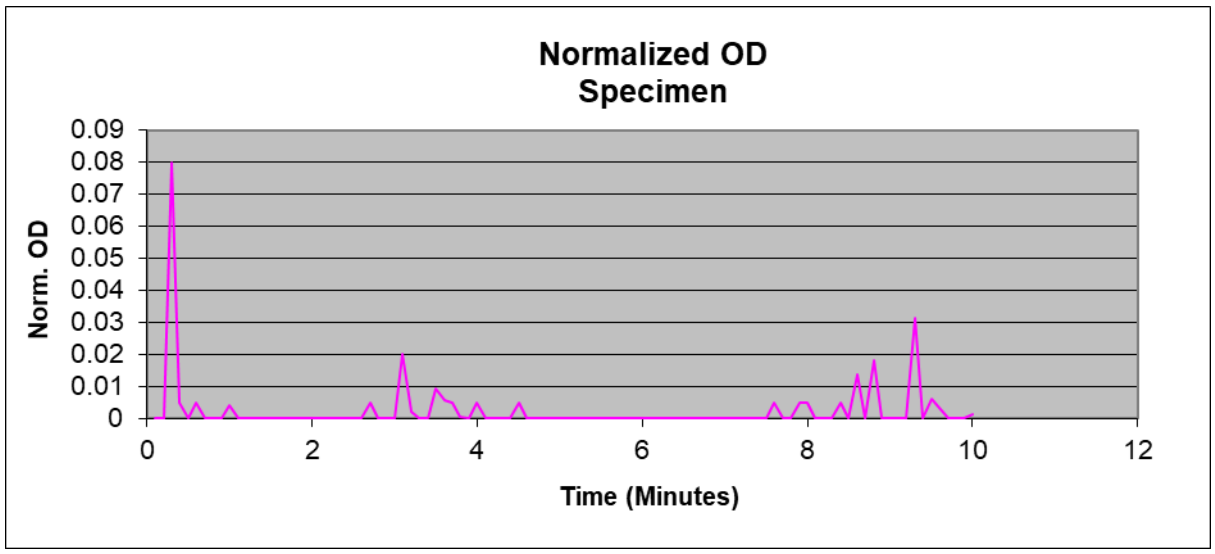

Pre-test photo

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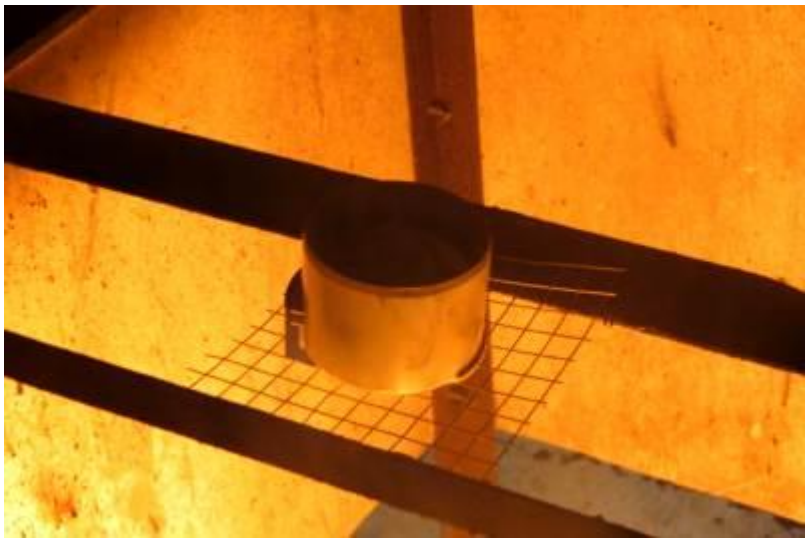
Pre-test photo



Test photo

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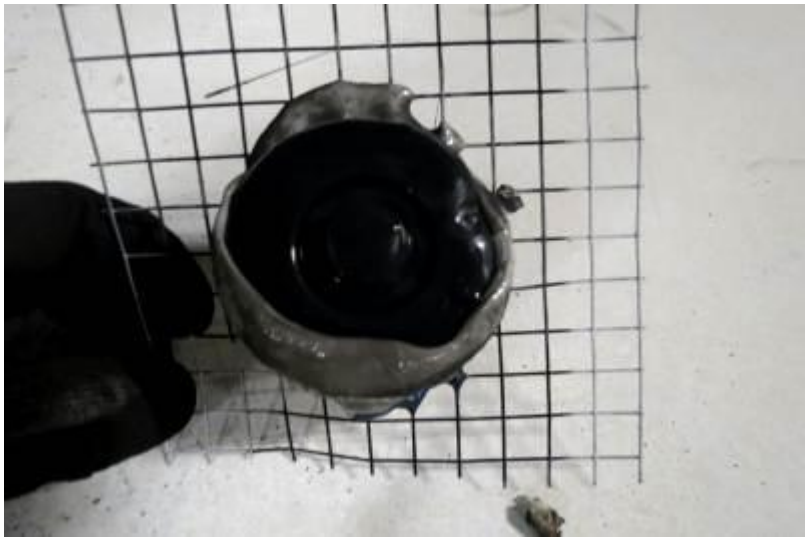
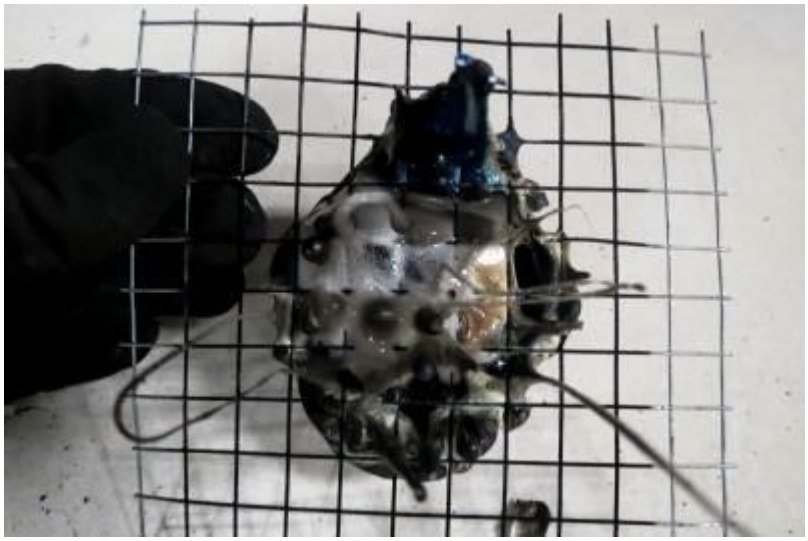


Post-test photo



Post-test photo

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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	11/16/2025	N/A	Original Report Issue