



State of Wisconsin
Governor Tony Evers

56lb, 25lb + 1kg Cipwts

Department of Agriculture, Trade and Consumer Protection
Bradley M. Pfaff, Secretary
Wisconsin Weights and Measures Laboratory

Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions
for calibration work performed for:
A-1 SCALE COMPANY, INC.

3287 SHERMAN WAY

SLINGER

WI

53086

(262) 677-3555

Date Received: 2/28/2019
Date of Calibration: 3/1/2019
Date Due: 3/1/2021

State Test No.: WI19-078

Uncertainty Statement

For the weights used in this calibration, some components can be assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainties multiplied by those coverage factors specified in our standard calibration records, to provide an expanded uncertainty. This uncertainty defined an interval having a level of confidence of approximately 95 per cent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the method Root Sum Squares (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration report. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for the artifacts identified in this report. The State Standards are traceable to the SI unit for mass, the kilogram.

Limitations and Conditions Statement

These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2018). Class F tolerances are usable for testing commercial weighing devices in Wisconsin, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Weights calibrated to ASTM tolerance 7 by this laboratory cannot be used for testing commercial weighing devices in Wisconsin, by definition (See NIST Handbook 105-1, Specification 1). Weights calibrated by ASTM Standard Specification E617-13 are not checked for density [Stainless steel weights are assumed 8.0 g/cm³], or for magnetism.

The following standard(s) were used: 50 lb: W50LB, 25 lb: W25LB, 10000 g: W10KG, 20000 g: W20KG, 25000 g: W25KG

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Paul Masterson

Paul Masterson, Chief Metrologist



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Calibration Certificate

Date Received: February 28, 2019
Date of Calibration: March 01, 2019
Date Due: March 01, 2021

State Test No.: W19-078
Item(s) Submitted: Cast Weight
Manufacturer: Rice Lake
Condition: Fair
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: A-1 SCALE COMPANY, INC.
Address: 3287 SHERMAN WAY
SLINGER, WI 53086

Kit Serial #: 8
Balance ID#: NISTIR 6969 (2018), SOP 8
Procedure Used: 18.5 °C
Temperature: 43.7 %
Relative Humidity: 741.6 mmHg
Pressure:

Contact: SCOTT KLESPPER
Phone: (262) 677-3555
PO Number: 11719-JP

Kit Serial #: 8
Balance ID#: NISTIR 6969 (2018), SOP 8
Procedure Used: 18.5 °C
Temperature: 43.7 %
Relative Humidity: 741.6 mmHg
Pressure:

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)	NIST HB 105-1 (1990), Class F	Uncertainty (mg)	Coverage Factor (k)
50	lb	AILV-C03	555	Pass	280	2.01
50	lb	AILV-C05	255	Pass	280	2.01
50	lb	C07	-3,045	Fail	280	2.01
50	lb	C05	-3,745	Fail	280	2.01
50	lb	AILV-C08	-1,085	Pass	280	2.01
50	lb	C03	-1,715	Pass	280	2.01
50	lb	C08	85	Pass	280	2.01
50	lb	C06	-725	Pass	280	2.01
50	lb	C09	-115	Pass	280	2.01
50	lb	C04	-1,925	Pass	280	2.01
50	lb	AIC29	-2,765	Fail	280	2.01
50	lb	AIC39	-1,565	Pass	280	2.01
50	lb	AIC30	-2,315	Fail	280	2.01
50	lb	AIC32	-1,635	Pass	280	2.01
50	lb	A1-C34	-3,425	Fail	280	2.01
50	lb	A1-C38	-3,955	Pass	280	2.01
50	lb	A1-C36	-3,475	Fail	280	2.01
50	lb	AIC31	-1,855	Pass	280	2.01
50	lb	A1-C40	-2,325	Fail	280	2.01
50	lb	A1-C33	-2,935	Pass	280	2.01
50	lb	A1-C16	-505	Pass	280	2.01
50	lb	A1C15	-515	Pass	280	2.01
50	lb	A1-C61	535	Pass	280	2.01
50	lb	A1-C35	355	Pass	280	2.01
50	lb	A1-C39	295	Pass	280	2.01
50	lb	A1-C71	855	Pass	280	2.01

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Address: 3287 SHERMAN WAY
SLINGER, WI 53086
Contact: SCOTT KLESPPER
Phone: (262) 677-3555
PO Number: 11719-JP

State Test No.: W19-078
Item(s) Submitted: Cast Weight
Manufacturer: Rice Lake
Condition: Fair
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 8
Balance ID#: 8
Procedure Used: NISTIR 6969 (2018), SOP 8
Temperature: 18.5 °C
Relative Humidity: 43.7 %
Pressure: 741.6 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass As Found	Correction (mg) As Left	NIST HB 105-1 (1990), Class F As Found	As Left	Uncertainty (mg)	Coverage Factor (k)
50 lb	lb	A1-C58	145	145	Pass	Pass	280	2.01
50 lb	lb	A1-C56	-275	-275	Pass	Pass	280	2.01
50 lb	lb	A1-C54	475	475	Pass	Pass	280	2.01
50 lb	lb	A1-C48	-15	-15	Pass	Pass	280	2.01
50 lb	lb	A1C81	915	915	Pass	Pass	280	2.01
50 lb	lb	A1C83	1,005	1,005	Pass	Pass	280	2.01
50 lb	lb	A1C89	975	975	Pass	Pass	280	2.01
50 lb	lb	A1C87	1,075	1,075	Pass	Pass	280	2.01
50 lb	lb	A1C80	795	795	Pass	Pass	280	2.01
50 lb	lb	A1C88	1,175	1,175	Pass	Pass	280	2.01
50 lb	lb	A1C82	1,155	1,155	Pass	Pass	280	2.01
50 lb	lb	A1C85	1,105	1,105	Pass	Pass	280	2.01
50 lb	lb	A1C86	895	895	Pass	Pass	280	2.01
50 lb	lb	A1C84	865	865	Pass	Pass	280	2.01
50 lb	lb	A1-C44	-1,635	-1,635	Pass	Pass	280	2.01
50 lb	lb	A1-C41	-1,085	-1,085	Pass	Pass	280	2.01
50 lb	lb	A1-C42	-2,025	75	Fail	Pass	280	2.01
50 lb	lb	A1-C46	-1,035	-1,035	Pass	Pass	280	2.01
50 lb	lb	A1LV-C02	-865	-865	Pass	Pass	280	2.01
50 lb	lb	A1-C21	-905	-905	Pass	Pass	280	2.01
50 lb	lb	A1-C45	-2,335	115	Fail	Pass	280	2.01
50 lb	lb	A1-C43	-1,595	-1,595	Pass	Pass	280	2.01
50 lb	lb	A1LV-C01	-405	-405	Pass	Pass	280	2.01
50 lb	lb	A1C28	-2,225	55	Fail	Pass	280	2.01
50 lb	lb	A1-C53	235	235	Pass	Pass	280	2.01
50 lb	lb	A1C11	-1,285	-1,285	Pass	Pass	280	2.01

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Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)	NIST HB 105-1 (1990), Class F	Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left		
50 lb	lb	A1C14	95	95	280	2.01
50 lb	lb	A1-C35	-2,745	85	280	2.01
50 lb	lb	A1C177	705	705	280	2.01
50 lb	lb	A1LV-C04	555	555	280	2.01
50 lb	lb	A1-C72	-285	-285	280	2.01
50 lb	lb	A1LV-C10	35	35	280	2.01
25 lb	lb	A1-D3	490	490	130	2.02
25 lb	lb	A1-D1	-640	-640	130	2.02
25 lb	lb	A1-D4	-230	-230	130	2.02
25 lb	lb	21PT	480	480	130	2.02
25 lb	lb	A1D2	-140	-140	130	2.02
10000 g	g	A1-MF1	681	681	120	2.06
20000 g	g	A1-ME1	938	938	250	2.07
25000 g	g	A1-MD1	357	357	310	2.08

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