



State of Wisconsin
Governor Scott Walker

Department of Agriculture, Trade and Consumer Protection
Sheila E. Harsdorf, Secretary

Wisconsin Weights and Measures Laboratory

Calibration Certificate
Statement of
Uncertainty, Traceability, Limitations, and Conditions
for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX
IL
60451-3669
(815) 463-1209

Date Received: 2/20/2018
Date of Test: 2/20/2018
Date Due:

State Test No.: W18-061

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

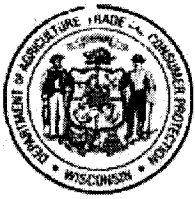
These results relate only to the items calibrated in this report. Weights and weight carts are calibrated to NIST Handbook 105-1 (1990) and NIST Handbook 105-8 (2003), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2014). 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). Weight 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

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Paul Masterson, Chief Metrologist

Justin Lien, Laboratory Director



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Calibration Certificate

Date Received: February 20, 2018
Date of Test: February 20, 2018

State Test No.: W18-061
Item(s) Submitted: Cast Weight
Manufacturer: Fairbanks
Condition: Good
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #:
Balance ID#: 8
Procedure Used: NISTIR 6969 (2014), SOP 8
Temperature: 18.8 °C
Relative Humidity: 45.8 %
Pressure: 734.9 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: T J OEHMEN
Phone: (815) 463-1209
PO Number: TB010

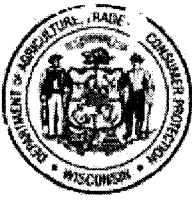
Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
50	lb	33	505	505	Pass	Pass	280	2.00
50	lb	32	-305	-305	Pass	Pass	280	2.00
50	lb	43	3,435	105	Fail	Pass	280	2.00
50	lb	45	4,635	95	Fail	Pass	280	2.00
50	lb	31	-2,495	85	Fail	Pass	280	2.00
50	lb	48	2,445	-5	Fail	Pass	280	2.00
50	lb	34	4,055	85	Fail	Pass	280	2.00
50	lb	44	3,425	35	Fail	Pass	280	2.00
50	lb	38	-1,945	-1,945	Pass	Pass	280	2.00
50	lb	35	-1,985	115	Pass	Pass	280	2.00
50	lb	37	-125	-125	Pass	Pass	280	2.00
50	lb	30	-375	-375	Pass	Pass	280	2.00
50	lb	36	-875	-875	Pass	Pass	280	2.00
50	lb	47	2,465	85	Fail	Pass	280	2.00
50	lb	39	-2,735	105	Fail	Pass	280	2.00
50	lb	40	4,825	75	Fail	Pass	280	2.00
50	lb	46	3,165	155	Fail	Pass	280	2.00
50	lb	41	1,235	1,235	Pass	Pass	280	2.00
50	lb	100	2,845	145	Fail	Pass	280	2.00
50	lb	110	2,595	25	Fail	Pass	280	2.00
50	lb	106	1,765	1,765	Pass	Pass	280	2.00
50	lb	103	1,885	1,885	Pass	Pass	280	2.00
50	lb	42	1,285	1,285	Pass	Pass	280	2.00
50	lb	49	3,835	75	Fail	Pass	280	2.00
50	lb	102	2,435	45	Fail	Pass	280	2.00
50	lb	105	1,485	1,485	Pass	Pass	280	2.00

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			As Found	As Left	As Found	As Left		
50	lb	101	2,695	95	<i>Fail</i>	Pass	280	2.00

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