SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

STERLING SCALE
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Southfield, MI 40875
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CALIBRATION

Valid To: May 31, 2019 Certificate Number: 1448.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Verification of Scales (Including Truck, Floor, and Crane Scales)[3] –			
Class III	(0 to 20) lb (20 to 50) lb (50 to 500) lb (500 to 1000) lb (1000 to 5000) lb (5000 to 10 000) lb (10 000 to 20 000) lb (20 000 to 40 000) lb	0.002 lb 0.002 lb 0.005 lb 0.05 lb 0.10 lb 0.58 lb 1 lb 2 lb	Verification using Handbook 44 with class F weights
Class IIIL	(40 000 to 100 000) lb (100 000 to 200 000) lb	5 lb 10 lb	

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Parameter/Equipment	Range	CMC[2] (±)	Comments
Verification of Precision Scales –			
Class I	(0 to 100) g (100 to 200) g	0.001 mg 0.002 mg	Class 1 weights
Class II	(200 to 500) g 500 g to 2 kg (2 to 10) kg (10 to 30) kg	0.01 mg 10 mg 22 mg 0.10 g	Class 1 and 2 weights

[1] This laboratory offers commercial calibration service and field calibration service.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] Field calibration service is available for this calibration and this laboratory meets A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.