



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

STANLEY ENGINEERED FASTENING
2400 Meijer Drive
Troy, MI 48084
Kamel Elagamy Phone: 248-943-7810
E-mail: kamel.elagamy@sbdinc.com

MECHANICAL

Valid To: August 31, 2020

Certificate Number: 4863.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory to perform testing on fasteners:

<u>Test/Technology</u>	<u>Test Method</u>
Hardness Rockwell (B and C) Rockwell Superficial (30N, 15N and 30T)	ASTM E18
Hardness Vickers (500gf)	ASTM E384
Metallographic Preparation	ASTM E3
Tensile	ASTM F606/F606M
Plating Thickness by Microscopic Measurement	ASTM B487
Plating Thickness by Magnetic Induction	ASTM E376
Optical Microscopy	ASTM E883
Weld Validation	SOP 017 using the methods listed above

Dimensional Testing¹

Parameter	Range	CMC ² (±)	Technique/Method
Torque	1.11-22.12 ft.lb and 5-99.5 ft.lb	±4 ftlbs	Torque Wrench/ ANSI/ASME B107, 300-2010
Linear Dimensions	(0.001 to 6) in (0.001 to 8) in	±0.002 in	Digital Caliper/ ANSI/NCSL Z 540-1-1994

¹ This test is not equivalent to that of a calibration.

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 measurements of nearly ideal measurement standards or nearly ideal measuring equipment. CMC's 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 measurement 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 measurement.





Accredited Laboratory

A2LA has accredited

STANLEY ENGINEERED FASTENING

Troy, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 1st day of October 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4863.01
Valid to August 31, 2020

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.