



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

FASTENAL COMPANY LABORATORY
5800 Industrial Ave
Loves Park, IL 61111
Rachel Lance Phone: 815 636 6839

MECHANICAL

Valid To: October 31, 2020

Certificate Number: 1046.08

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests on steel and stainless steel:

Test

Test Methods

Mechanical Testing

Drill Drive	SAE J78
Hardness Rockwell (B, C, 30N)	ASTM A370, E18, F606, F606M; ISO 898-1, ISO 898-2
Microhardness Vickers (300g, 500g)	ASTM E384
Proof (Internal/External Threads) Bolts	ASTM A370 (A3.2.1.2), F606M (3.2.3); ISO 898-1 (8.4)
Stress Durability (HE)	SAE J78
Tensile (Axial/Wedge)	ASTM A370 (A3.2, 13.2.1), F606, F606M (3.4, 3.5, 3.6); DIN 267-11; ISO 898-1 (8.1, 8.5)
Torsional Strength	SAE J78
Ductility	ASME B18.6.3; FIP 1000; SAE J78, J81

Metallographic Evaluation

Case Depth	SAE J423, J78
Decarburization	ASTM F2328

I. Dimensional Testing

Parameter	Range	CMC ¹ (±)	Technique/Method
Threads	#4 to 2½ in M3 to M24	NA NA	Rings, plugs/ ANSI B1.1, B1.3 (System 21)
	Up to 2 in	0.00098”	Pitch micrometer/ ANSI B1.1 (System 21)
Linear — • 1D	Up to 12”	0.0014	Length Gauge
	Up to 2 in	0.0003”	Outside micrometers
	Up to 6 in	.0019”	Calipers 6
Recesses	Up to 1 in	0.002”	Recess penetration/ ASME B18.6.3
Flat Head	Up to 1 in	0.00043”	Protrusion gage/ ASME B18.6.3

¹ 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. 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 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.



Accredited Laboratory

A2LA has accredited

FASTENAL COMPANY LABORATORY

Loves Park, IL

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 24th day of September 2018.

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

President and CEO
For the Accreditation Council
Certificate Number 1046.08
Valid to October 31, 2020

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