



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MAR-BRO MANUFACTURING, INC.
 1020 S. 54th Avenue
 Phoenix, AZ 85043
 Frederick J. Martinez Phone: 602 278 8197

MECHANICAL

Valid To: January 31, 2018

Certificate Number: 1272.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests¹:

<u>Test</u>	<u>Test Methods</u>
Hardness (HRC & HRBW)	ASTM E18
Axial Tensile	ASTM F606, F606M
Yield	ASTM F606, F606M
Wedge Tensile	ASTM F606, F606M
Elongation	ASTM F606, F606M
Proof Load, Length Measurement	ASTM F606, F606M
Reduction in Area	ASTM F606, F606M
Total Extension at Fracture	ASTM F606, F606M, F738M, F837, F837M, F879, F879M

Dimensional Testing¹:

Parameter	Range	Technique/Standards
Linear ²	Up to 1 in Up to 12 in Up to 12 in	MIL-STD-120 Digital major gage Calipers Digital length gage

Parameter	Range	Technique/Standards
Threads ² (External)	# 10 to 0.5 in M5 to M16 0-80 to 3/4 in	ASME B1.1, B1.3M Systems 21, 22 Tri-rolls Ring gages
Recess Depth ²	Up to 1 in	ASME B18.3, B18.3.1M, B18.3.3M, B18.3.4M, B18.3.5M; ANSI B18.6.3 Digital indicator
Flat Head Protrusion ²	Up to 1 in	ASME B18.3, B18.3.5M; ANSI B18.6.3 Protrusion gage
Head Height ²	Up to 1 in	MIL-STD-120 Protrusion gage

¹ This laboratory is not normally available for commercial dimensional testing services.

² This test is not equivalent to that of a calibration.





Accredited Laboratory

A2LA has accredited

MAR-BRO MANUFACTURING, INC.

Phoenix, AZ

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 8 January 2009).



Presented this 10th day of May 2016.

A handwritten signature in blue ink, reading "Jim C. Bunt".

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 1272.01
Valid to January 31, 2018

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