

# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

*Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:*

**Bossard North America  
6521 Production Drive  
Cedar Falls, IA 50613**

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

**ISO/IEC 17025: 2005**

*This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO/PLAC/IAF Communiqué dated January 2009):*

***Dimensional Inspections and Mechanical Testing of Threaded Fasteners,  
Washers, Rivets, and Related Hardware  
(As detailed in the supplement)***

*Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.*

For PJLA:

*The validity of this certificate is mandated through ongoing surveillance.*

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Tracy Szerszen  
President/Operations Manager  
Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
26555 Evergreen, Suite 1325  
Southfield, Michigan 48076

*Initial Accreditation Date:*  
August 05, 2009

*Issue Date:*  
August 05, 2009

*Expiration Date:*  
August 04, 2011

*Accreditation No.*  
60247

*Certificate No.*  
L09-73

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# *Certificate of Accreditation: Supplement*

**Bossard North America**  
6521 Production Drive  
Cedar Falls, IA 50613

*Accreditation is granted to this facility to perform the following testing:*

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Dimensional Inspection	Threaded fasteners, washers, rivets, and related hardware	Diameter, length, and other linear dimensional measurements using calipers	MIL-STD 120	0 mm to 642 mm 0.01 mm
		Diameter, length, and other linear dimensional measurements using micrometers	MIL-STD 120	0 mm to 26 mm 0.001 mm
	Internally threaded fasteners	Pitch diameter specification limit evaluation using threaded plug go and no go gauges	ANSI B1.3, ISO 1502	1.890 mm to 73.937 mm 0.008 mm
	Externally threaded fasteners	Pitch diameter specification limit evaluation using threaded ring go and no go gauges	ANSI B1.3, ISO 1502	1.654 mm to 39.901 mm 0.0015 mm
Mechanical	Thread forming screws	Torsional breaking strength	ANSI B18.6.4, ANSI B18.6.5M, SAE J81, SAE J1237, ISO 7085	0 N•m to 340 N•m 0.113 Nm
	Externally threaded fasteners	Ultimate tensile load	ASTM F606, ASTM F606M	0 N to 533 787 N 10 N
	Internally threaded fasteners	Nut proof load	ASTM F606, ASTM F606M	0 N to 533 787 N 10 N
	Threaded fasteners, washers, rivets, and related hardware	Rockwell hardness	ASTM E18, ASTM F606, ASTM F606M	HRC 20 to HRC 68 HRB 30 to HRB 100 HR15N 69 to HR15N 93 HR30N 42 to HR30N 84 0.1 respective hardness unit
		Microindentation hardness	SAE J423, SAE J81, SAE J1237, SAE J121, SAE J121M, ASTM F2328, ASTM F2328M, ASTM E384	120 HK to 920 HK 107 HK to 940 HV 1 respective hardness unit