BBC FASTENERS, LLC.

-Manufacturers of Quality Hot and Cold Headed Fastener Products and CNC Machining-
4210 SHIRLEY LANE (708) 597-9100
ALSIP, IL 60803 (800) 323-1347
e-mail: BBC_QC@BBCFASTENERS.COM

TEST REPORT

April 17, 2026

LEJEUNE BOLT COMPANY
3500 WEST HIGHWAY 13
BURNSVILLE, MN 55337-1795

MATERIAL AND TEST CERTIFICATE
DESCRIPTION OF MATERIAL AND SPECIFICATIONS

BBC Part Description:	BHH050C070035HGX, 1/2-13 X 7" HVY HEX STRUCT BOLT, A325-1, HD GALV
Customer Order No.	01210772
Quantity	899 PARTS
Invoice No.	4124515
Specification:	ASTM F3125/F3125M-2025
Shipping Date:	4/10/2026
Sample Plan:	ASTM F1470-2024
Heat Number:	10889460

100% MELTED AND MANUFACTURED IN THE U.S.A.

MECHANICAL PROPERTIES

	SAMPLE # 1	SAMPLE # 2	SAMPLE # 3
Tensile Strength: LBF	20,337 LBF	20,204 LBF	20,472 LBF
Proof Load: PASS / FAIL	PASS	PASS	PASS
Mid-Radius Hardness: HRC	30.00 RC	29.00 RC	30.00 RC

TEST METHODS: ASTM F606/F606M-2025 & ASTM E18-2024

BBC LOT #: 030226-1AE

We hereby certify that the above test results are correct and that all the parts or material identified have been manufactured and inspected in accordance with applicable quality requirements. We also hereby certify that all parts or material conform to the applicable drawings, specifications, and conditions set forth on the purchase order. Conformance is based on simple acceptance. results apply only to items tested.

17th Day of April, 2026

QUALITY ASSURANCE

QUALITY MANAGER

THIS TEST REPORT CANNOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL FROM BBC FASTENERS, INC.

Tested By: BBC Fasteners A2LA Testing Laboratory Accreditation #0234-01, expires 08/31/2027

CHARTER STEEL
A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road
Saukville, Wisconsin 53080
(262) 268-2400
1-800-437-8789
Fax (262) 268-2570

CHARTER STEEL TEST REPORT

Melted in USA Manufactured in USA

BBC Fasteners
4210 Shirley Ave.
Alsip,IL-60658
Kind Attn :Gene Sullivan

Cust P.O.	S54580
Customer Part #	BARC0515H1045IQAN
Charter Sales Order	50102544
Heat #	10889460
Ship Lot #	4855488
Grade	1045 A SK FG IQ 33/64 RNDCOIL
Process	HRSA
Finish Size	33/64
Ship date	21-MAY-24

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and that it satisfies these requirements. The recording of false, fictitious and fraudulent statements or entries on this document may be punishable as a felony under federal statute.

Test results of Heat Lot # 10889460

Lab Code: 7388

CHEM	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
%Wt	.46	.76	.006	.013	.220	.05	.06	.02	.08	.006	.002

AL	N	B	TI	NB
.025	.0060	.0001	.001	.001

JOMINY(HRC)

J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12
59	48	32	30	29	29	28	27	26	26	26	25

J13	J14	J15	J16	J18	J20	J22	J24
24	24	23	23	22	21	20	20

JOMINY LAB=0358-01 JOMINY SAMPLE TYPE ENGLISH=R CAT DI (in)=1.17

Test results of Rolling Lot # 1398321

	# of Tests	Min Value	Max Value	Mean Value
ROD SIZE (Inch)	2	.516	.518	.517
ROD OUT OF ROUND (Inch)	1	.002	.002	.002

REDUCTION RATIO=145:1

Specifications: Manufactured per Charter Steel Quality Manual Rev Date 05/12/17
Charter Steel certifies this product is indistinguishable from background radiation levels by having process radiation detectors in place to measure for the presence of radiation within our process & products.
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = ASTM A29/A29M - 23 Revision = Dated = 01-JUL-23

Additional Comments:

Melt Source:

Charter Steel

Saukville, WI, USA

This MTR supersedes all previously dated MTRs for this order

Douglas Jones Division Mgr. of Quality Assurance

jonesdo@chartersteel.com

Printed Date : 05/21/2024

Trip: R5793914

INDIANA GALVANIZING, LLC

Hot-Dip Galvanizing
51702 Lovejoy Dr.
Middlebury IN, 46540
Phone: 574-822-9102 Fax: 574-822-9106

Customer
BBC Fasteners LLC.
4210 W. Shirley Lane
Alsip, IL 60803-2410

PO: 4363021
DATE: 3.30.26

Hot-Dip Galvanizing Certifi

Indiana Galvanizing certifies that samples representing listed lot(s) have been tested and inspected as required by applicable specifications. The results of this inspection and testing demonstrates that the requirements for ASTM F2329, including the requirements ASTM A153, Class C that are referenced within the specification, have been met and have been galvanized in Middlebury, Indiana of the United States of America. Indiana Galvanizing is RoHS Compliant.

Kettle Temperature (Must be between 815 and 850 Degrees Fahrenheit) 840

Mil Readings

Lot Number	High	Low	Average	Number Pcs
030226-1AE	5.5	2.90	4.14	928

Trevor Gentry
Quality Manager or Assignee