

ja **M**es a.
c Brady, Inc.

PLANT: PLEASANT HILL ROAD, SCARBOROUGH, MAINE 04074
MAIL: P.O. BOX 8239, PORTLAND, MAINE 04104
(207-883-4176)

March 7, 2011

Langford & Low, Inc.
P O Box 662
Portland, ME 04104-0662
Attn: Gabby Russell

RE: Allagash Brewery

Gabby,

Attached please find Mill Test Reports and Certifications for structural steel materials supplied on this project, as requested.

Sincerely,



James A. McBrady
James A. McBrady, Inc.

RECEIVED

MAR - 8 2011

**Dept. of Building Inspection
City of Portland Maine**

SET LOT NO. PK941B

INSPECTION CERTIFICATE



UNYTITE, INC.
 One Unytite Drive
 Peru, Illinois 61354

815-224-2221 — FAX # 815-224-3434

Specification	Size	Quantity
ASTM F1852 Type 1 ASTM A563 Grade DH ASTM F436 Type 1	3/4-10 UNC X 1-3/4	35,125 pcs.

Mechanical properties tested in accordance to ASTM F606/F606M, ASTM A370, ASTM E18

BOLT LOT NO. PK941

Date: Mar. 09, '10

20-16320

	Mechanical Property of Full Size Bolts				Heat Treatment		IDENTIFICATION	Chemical Composition %										
	Tensile Strength		Proof Load 28400 lb. (Length Method)	Hardness HRC	T (°C)				C	Si	Mn	P	S	Cu	Ni	Cr	Mo	B
	Load (lbf)	Position of fracture			Quench	Temper			x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100	x 100	x 100
Spec.	Min. 40100	Part of Screw	Max. +/- 0.0005 in.	34 MAX	--	Min. 800	Heat No.		30	15	Min.	Max.	Max.	--	--	--	--	--
Average	49375	Part of Screw	ALL PASS	31.8	1580	878	10049530	52	30	60	40	50	--	--	--	--	27	

NUT LOT NO. PK351

Hardness (HRC)	Hardness After 24 hr x 1000° F HRB	Proof Load (Lbf)	Heat Treatment		IDENTIFICATION	Chemical Composition %								
			T (°C)				C	Si	Mn	P	S	Cu	Ni	Cr
			Quench	Temper			x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100
Spec.	24-38	Min. HRB 89	58450	--	Min. 800		Heat No.	20	--	Min.	Max.	Max.	--	--
Mean/5 pcs.	28.3	--	ALL PASS	1562	1202	M35092	49	23	80	12	33	16	8	11

Thread Accuracy (Bolt & Nut)	
Bolt	ASME B1.1 Class 2A
Nut	ANSI B1.1 Class 2B

WASHER LOT NO. WC1935

Hardness (HRC)	IDENTIFICATION	Chemical Composition %								
		C	Si	Mn	P	S	Cu	Ni	Cr	
		x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100	
Spec.		--	--	--	Max. 40	Max. 50	--	--	--	
Mean/5 Pcs.	Heat No. 195573	28	2	133	10	5	--	--	--	

Fastener Tension	
Spec. (lbf.)	Min. 29000
Mean / 6 sets.	34018
Standard Deviation	1932

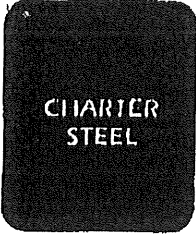
OFFICIAL SEAL
 JEAN MARGHERIO
 NOTARY PUBLIC - STATE OF ILLINOIS
 MY COMMISSION EXPIRES: 10/1/11
03-10-10

Material used for the bolt, nut and washer were melted & manufactured in the USA. The product was manufactured in the USA to ASTM specifications. The bolt and nut are manufactured by Unytite. We hereby certify that the material described has been manufactured and inspected satisfactory with requirement of the above specification.

Chief of Quality Assurance Section

[Signature]

LOAD



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Unytite, Inc.
One Unytite Drive
Jean Margherlo
Peru, IL-61354
Kind Attn : Jean Margherlo

Cust P.O.	2766
Customer Part #	C10B30SC0.732D
Charter Sales Order	10013870
Heat #	10049530
Ship Lot #	4006589
Grade	10B30 M SK FG RHQ 49/64
Process	DD
Finish Size	0.7320

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10049530

Lab Code: 7388	C	MN	P	S	SI	N	CR	MO	CU	SN	V
CHEM %Wt	.34	.84	.01	.009	.24	.04	.08	.01	.08	.006	.003
	AL	N	B	TI	NB						
	.026	.006	.0027	.021	.001						

CHEM. DEVIATION EXT.-GREEN =

Test Results of Rolling Lot# 1002378

	# of Tests	Min Value	Max Value	Mean Value
ROD SIZE	16	.762	.772	.767
ROD OUT OF ROUND	5	.002	.008	.005

NUM DECARB = 1 AVE DECARB = .002
REDUCTION RATIO = 66:1

Test Results of Processing Lot# 4006589

	# of Tests	Min Value	Max Value	Mean Value	
TENSILE	3	98.5	98.9	98.7	TENSILE LAB = 0358-02
REDUCTION OF AREA	3	52	54	53	RA LAB = 0358-02
ROCKWELL B	3	92	93	93	RB LAB = 0358-02
WIRE SIZE	20	.7306	.7317	.7313	
WIRE OUT OF ROUND	20	0	.0004	.0002	

Specifications: Manufactured per Charter Steel Quality Manual Rev B, 12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = RMS-002 & RMS-001 Revision = 6 Dated = 01-JUL-08

Additional Comments:

Charter Steel
Saukville, WI, USA



Page 1 of 1
Testing Laboratory

Janice Barnard
Manager of Quality Assurance
02/28/2010

Rem: Load1, Fax0, Mail0

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled and processed in the United States.
2. Mercury was not used during the manufacture of this product; nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSMD	Charter Steel Melting Division	1658 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSRD/ CSPD	Charter Steel Rolling/ Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	P4	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSC	Charter Steel Cleveland	4300 E. 49 th St., Cuyahoga Heights, OH 44125-1004
0358.05	128003	CSDT	Charter Steel Detroit	23860 Sherwood Ave. Center Line, MI 48015
*	*	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSMD, CSC	ASTM E415; ASTM E1019
X-ray Fluorescence Stainless and Alloy Steel	CSC	ASTM E572
Macroetch	CSMD, CSC	ASTM E381
Hardenability (Jominy)	CSMD, CSC	ASTM A255; SAE J406; JIS G0561
Grain Size	CSMD	ASTM E112
Tensile Test	CSRD/CSPD, P4, CSC, CSDT	ASTM E8; ASTM A370
Rockwell Hardness	CSMD, CSRD/CSPD, P4, CSC, CSDT	ASTM E18; ASTM A370
Microstructure (spheroidization)	CSRD/CSPD, P4	ASTM A892
Inclusion Content (Methods A, E)	CSRD/CSPD, CSC	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/09

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report, subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgment (designated by our Sales Order number) to the customer's purchase order. Both Order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



Testing Laboratory



5501 MORRILL ROAD
JACKSON, MICHIGAN 48201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER P003084-2	CUSTOMER PART NUMBER B1045SC10000	HEAT NUMBER M35092	WORK ORDER NUMBER 235571 101	DATE 2/15/10
------------------------------------	--------------------------------------	-----------------------	---------------------------------	-----------------

REPORT TO
TRACI
UNYTITE, INC.

SHIP TO

UNYTITE, INC.

ONE UNYTITE DRIVE

ONE UNYTITE DRIVE

PERU , IL 61354-9710

PERU , IL 61354

ORDERED

GRADE 1045	SIZE 1" RND	LENGTH 24' 10 1/2"
---------------	----------------	-----------------------

CUSTOMER SPECIFICATIONS
SAE 1045; ASTM E381-01; RMS 021 DATED 9/28/06

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.49	0.80	0.012	0.033	0.23	0.08	0.11	0.03	0.16	0.008	0.003
V	Nb									
0.061	0.001									

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

MICROCLEANLINESS SPECIFICATION ASTM E45 METH A

	A		B		C		D	
	T	H	T	H	T	H	T	H
AVERAGE	2.4	0.7	1.8	0.4	0.3	0.0	1.8	0.5

MACROCLEANLINESS SPECIFICATION ASTM E381

	PLATE I			PLATE II		
	S	R	C			
FRONT	1	1	1			
MIDDLE	1	1	1			

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gerdau MacSteel Monroe
3000 East Front Street
Monroe, MI 48161

Chris Easter
Quality Assurance Representative

CONTINUED ON PAGE 2

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER P003084-2	CUSTOMER PART NUMBER B1045SC10000	HEAT NUMBER M35092	WORK ORDER NUMBER 235571 101	DATE 2/15/10
---	---	------------------------------	--	------------------------

REPORT TO
TRACI
UNYTITE, INC.

ONE UNYTITE DRIVE
PERU , IL 61354-9710

SHIP TO

UNYTITE, INC.
ONE UNYTITE DRIVE
PERU , IL 61354

ORDERED

GRADE 1045	SIZE 1" RND	LENGTH 24' 10 1/2"
----------------------	-----------------------	------------------------------

CUSTOMER SPECIFICATIONS
SAE 1045; ASTM E381-01; RMS 021 DATED 9/28/06

BACK 1 1 1
AVERAGE 1 1 1 NONE

DECARB SPECIFICATION ASTM E1077

F TOTAL= 0.006

REDUCTION RATIO

RATIO= 45.8 TO 1.0

RESIDUAL MAX SPECIFICATION RMS 021

= 0.1900

** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. **

PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau MacSteel Monroe
3000 East Front Street
Monroe, MI 48161

Chris Easter
Chris Easter
Quality Assurance Representative



23513 Groesbeck Highway, Post Office Box 1086
Warren, Michigan 48090-1086
(586) 773-2700 * Fax (586) 773-2298
www.prestigestamping.com

PRODUCT CERTIFICATION

CERTIFICATION NUMBER

72176

THIS IS TO CERTIFY THE PRODUCT STATED BELOW WAS FABRICATED AND PROCESSED TO THE ORDER AS INDICATED AND CONFORMS TO THE APPLICABLE SPECIFICATIONS AND STANDARDS.

Customer: UNYTITE INNOVATIVE FASTENER
ACCOUNTS PAYABLE DEPARTMENT
1 UNYTITE DRIVE
PERU, IL 61354

Customer Part: F436 3/4" PLN
Prestige Part: P1480H01
Part Name: F436 3/4" PLN
Purchase Order: P003094-1
Shipment ID: A0140344
Quantity: 225410
Manufacturers Marking: "P"

Steel Supplier: MID STATE INDUSTRIES
Grade: CF436 GRADE STEEL
Lot: C1935
Heat: 195573
Carbon: .28
Manganese: 1.33
Phosphorous: .010
Sulfur: .005
Silicon: .018

SPECIFICATIONS

HARDNESS: TEST METHOD: ASTM E18
HRC 38 - 45
CHECK TO ASTM F606

TEST RESULTS

HARDNESS:
HRC 39 - 44

Chemistry is as reported from raw material certification and does not fall under Prestige Stamping's accreditation.
This product was produced under an ISO/TS 16949 Quality Assurance System.

ISO/TS 16949 Certification No: 0082933.

Material was melted and manufactured in the U.S.A.

This product was manufactured in Warren, Michigan U.S.A.

This product conforms to all requirements for washers as produced according to A.S.T.M. F-436.

Sampling Plan per P.S.I W.I. # 5.4.1B.015.

The test results only apply to the items tested.

This test report must not be reproduced except in full without prior written approval.

Materials used to manufacture these products are mercury, asbestos and radio activity free.

FRANK SCHUBERT
Quality Assurance Manager

01935

Mid-State Industries, LLC

908 Bob King Drive P.O. Box 68
Arcola, IL 61910

Office: 217-268-3900
Fax: 217-268-3906

Material Certification of Analysis

Customer: Prestige Stamping Inc

Date: Nov 16, 2009

23513 Groesbeck Highway
Warren, Michigan 48090

Description: .122 x 5.500 x coil

Part#: P1480H00

Mid-State Coil #: R21173

Master Coil#: 1438182

Material chemical weight percent composition:

The chemical analysis hereby reported was supplied by the producing mill and provided certification is maintained in the records of the corporation.

Heat #: 195573

Grade: 1050

PO: 17160

Carbon: 0.28

Manganese: 1.33

Phosphorus: 0.010

Sulfur: 0.005

Silicon: 0.018

Aluminum: 0.034

Melted & MFG in USA



RECEIVED

NOV 16 2009

Time 9:40AM ON

DECKER**MANUFACTURING CORPORATION**MANUFACTURERS OF INDUSTRIAL FASTENERS & PIPE PLUGS
703 North Clark Street Albion, Michigan 49224Phone 517-629-3955
Fax 517-629-3535
Sales Fax 517-629-8424
www.decker-nut.comHAYDON BOLTS INC
1181 UNITY STREET
PHILADELPHIA, PA 191243196

March 9, 2010

PRODUCT MATERIAL CERTIFICATION

CUSTOMER PART NUMBER: VUC075 INVOICE: 68190
CUSTOMER P.O. NUMBER: Z04192LOT NUMBER: 10-35-011 DESCRIPTION: 3/4-10 HVY HX A563
DATE: Jan 19, 2010 QUANTITY: 99,000
HEAT NUMBER: 10040270 MATERIAL SUPPLIER: Charter Steel
MATERIAL: STEEL - C1020

We certify the product above was manufactured at DECKER MANUFACTURING CORPORATION from the specified raw material and that said product is certified to be manufactured, randomly sampled, tested and/or inspected and conforms to applicable specifications. We additionally certify that said raw material was domestically manufactured in the United States of America and that said raw material was manufactured free of mercury contamination.

The items were processed under the Decker Quality Manual. The current revision is dated January 12, 2005. No welding was performed.

This document accurately represents values and statements provided by our suppliers accredited testing facility. The original metallurgical test report shall be retained on file by DECKER MANUFACTURING CORPORATION for a period of not less than (10) years.

CHEMICAL ANALYSIS BY MATERIAL SUPPLIER

CARBON: 0.180 PHOSPHOROUS: 0.007
MANGANESE: 0.390 SULFUR: 0.011

DECKER MANUFACTURING CORPORATION

Russel L. Wilson
Quality Assurance Manager

The above results pertain only to the items tested. This report shall not be reproduced except in full without the approval of this testing facility.

DECKER



MANUFACTURING CORPORATION

MANUFACTURERS OF INDUSTRIAL FASTENERS & PIPE FITTINGS
703 North Clark Street Albion, Michigan 49221

Phone 517-629-3555
Fax 517-629-3555
Sales Fax 517-629-2421
www.deckercorp.com

LABORATORY AND TESTING FACILITY ACCREDITATIONS: A2LA #0409-01

Required to be in compliance to current Rev Level Form E.0
ORIGINAL LABORATORY AND/OR INSPECTION REPORT
THIS IS A LEGAL DOCUMENT

NAME AND ADDRESS OF CLIENT _____

DATE OF _____

DATE OF MANUFACTURE 01/18/10

LEAD FILE ID NUMBER/LOT NUMBER _____

DWG PART NUMBER _____

ITEM DESCRIPTION 5/8 X 7/8 24HRV HEX NUT

GRADE/TYPE AND FINISH A193-708/304

NAME(S) OF USER(S) SAMPLING W. J. S. CO. SAMPLING

PROCEDURES ARE UNDER THE SUPERVISION OF DECKER MANUFACTURING CORPORATION'S QUALITY

DEPARTMENT

PRODUCTION LOT SIZE 52000 % SUITABILITY/CONDITION OF TEST SPECIMENS ACCEPTABLE

TOTAL NO. OF SAMPLES INSPECTED AND/OR TESTED 10 ONEIGHT

INSPECTION/TEST DATE(S) 03/10 03/10

DESCRIPTION(S) RICK MILITARY

PROD. LOAN _____

SPECIFICATION(S) ASTM F 436

ASTM F 436

REQUIREMENTS: ASTM F 436 GRADE A193-708 FINISH 304 ASTM A 193 GRADE C @ 48,000 EBF

REQUIREMENT(S) 90128407

184480

INSPECTION/TEST RESULTS:

UNIT OF MEASUREMENT - HRD W		UNIT OF MEASUREMENT - LBF	
(1) <u>91.5</u>	(5) <u>90.5</u>	(7) <u>49,140</u>	(11) <u>49,180</u>
(2) <u>90.5</u>	(6) <u>90</u>	(8) <u>49,150</u>	(12) <u>49,130</u>
(3) <u>90</u>	(7) <u>90.5</u>	(9) <u>49,130</u>	(13) <u>49,130</u>
(4) <u>90</u>	(8) <u>90.5</u>	(10) <u>49,150</u>	(14) <u>49,130</u>

TEST WORK AND MODEL ASTM F 436 FACILITY _____

SPECIFICATION OR MATERIAL GRADE AS EVIDENCED _____

REMARKS OR DEViations: PER ASTM F 436 SECTION 4 THE HARDNESS OF EACH SAMPLE IS THE

AVERAGE OF FIVE READINGS AND EACH READING MUST BE WITHIN THE PRODUCT SPECIFICATION

HEAT TREAT SURFACE TREATMENT (GALVANIZING)

TO THE SPECIFICATIONS ABOVE THE SAMPLES INSPECTED AND/OR TESTED

ARE RESULTING IN A _____ (CONFORM) _____ (DO NOT CONFORM)

APPROVED SIGNATURE _____

QUALITY MANAGER

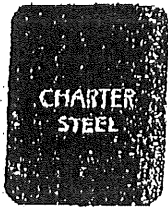
INSPECTED AND/OR TESTED BY _____

Authorized Lab Technician

FUNCTION: _____

I HEREBY GRANT THE ABOVE TEST REPORT TO YOU AND TO ANYONE YOU SHARE WITH THE ABOVE STATED SPECIFICATION (S) AND THAT THE RESULTS SAME COMPANY OR MANUFACTURER. THE ABOVE REPORTS ARE ISSUED TO THE CLIENT FOR THEIR USE ONLY. BY THE COMPANY, MANUFACTURER OR DISTRIBUTOR. THIS DOCUMENT IS NOT TO BE REPRODUCED IN FULL OR PART WITHOUT THE APPROVAL OF DECKER MANUFACTURING CORPORATION. DO NOT SIGN OR ALTER ANY FORM OR DRAWING WITHOUT THE APPROVAL OF DECKER MANUFACTURING CORPORATION. BY RECEIVING OF THIS DOCUMENT FOR THE TERM AND CONDITIONS OF THE TEST REPORT.

FAX



CHARTER STEEL

1658 Cold Springs Road
Saukville, Wisconsin 53080

CHARTER STEEL TEST REPORT
Reverse Has Text And Codes

(262) 268-2400

1-800-437-9749

FAX (262) 268-2111

A Division of
Decker Manufacturing Company, Inc.

Decker Manufacturing Corp.
703 N. Clark St.
Stave Konkle
Albion, MI-49224
Kind Attn: Steve Konkle

Charter Steel Part No.	45024
Charter Steel Part No.	135138
Charter Steel Part No.	30008940
Charter Steel Part No.	10040270
Charter Steel Part No.	623288
Charter Steel Part No.	1020 A AK FG RHQ 1-1/8
Charter Steel Part No.	HRCC
Charter Steel Part No.	1-1/8

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10040270

Lab Code: 7388											
CHEM:	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
%Wt:	.18	.39	.007	.011	.09	.03	.05	.01	.08	.006	.003
	AL	N	B	TI	NB						
	.026	.007	.0001	.001	.001						

CHEM. DEVIATION EXT.-GREEN =

		Test Results of Rolling Lot# 434782			
		# of Tests	Min Value	Max Value	Mean Value
ROCKWELL B	1	74	74	74	RD LAB = 0395-02
ROD SIZE	4	1.122	1.120	1.126	
ROD OUT OF ROUND	1	.007	.007	.007	
REDUCTION RATIO = 30:1					

Specifications: Manufactured per Charter Steel Quality Manual Rev E.12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = Revision = Dated =

Additional Comments: Fax Number - 617-620-3535

Charter Steel
Saukville, WI, USA



Janice Bernard
Manager of Quality Assurance
01/13/2010

Rem: Load, Fax 1. Mail 0

10040270
1.125



23513 Groesbeck Highway, Post Office Box 1086
 Warren, Michigan 48090-1086
 (586) 773-2700 * Fax (586) 773-2290
 www.prestigestamping.com

PRODUCT CERTIFICATION

CERTIFICATION NUMBER
 76621

THIS IS TO CERTIFY THE PRODUCT STATED BELOW WAS FABRICATED AND PROCESSED TO THE ORDER AS INDICATED AND CONFORMS TO THE APPLICABLE SPECIFICATIONS AND STANDARDS.

Customer: HAYDON BOLTS INC
 ACCTS PAYABLE DEPT
 1181 UNITY ST
 PHILADELPHIA, PA 19124-3196

Customer Part: 3/4" F436 PLN	Steel Supplier: KENWAL STEEL - BURNS HARBOR
Prestige Part: P1480H00	Grade: CF436 GRADE STEEL
Part Name: 3/4" F436 PLN	Lot: C2277
Purchase Order: Z04999-1	Heat: 4170694
Shipment ID: A0145478	Carbon: .34
Quantity: 24300	Manganese: 1.28
Manufacturers Marking: "P"	Phosphorous: .013
	Sulfur: .001
	Silicon: .180


SPECIFICATIONS

HARDNESS: TEST METHOD: ASTM E18
 HRC 38 - 45
 CHECK TO ASTM F606

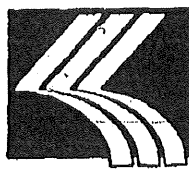
TEST RESULTS

HARDNESS:
 HRC 39 - 42

Chemistry is as reported from raw material certification and does not fall under Prestige Stamping's accreditation.
 This product was produced under an ISO/TS 16949 Quality Assurance System.
 ISO/TS 16949 Certification No: 0062933.
 Material was melted and manufactured in the U.S.A.
 This product was manufactured in Warren, Michigan U.S.A.
 This product conforms to all requirements for washers as produced according to A.S.T.M. F-436.
 Sampling Plan per P.S.I W.I. # 5.4.18.015.
 The test results only apply to the items tested.
 This test report must not be reproduced except in full without prior written approval.
 Materials used to manufacture these products are mercury, asbestos and radio activity free.


 FRANK SCHUBERT
 Quality Assurance Manager

C2277



Kenwal Steel Corp.
8223 West Warren Avenue
Dearborn, Michigan 48126
Phone: (313) 739-1000 Fax: (313) 739-1001

CERTIFICATION OF STEEL ANALYSIS

Sold To: Prestlge Stampling Inc
Po Box 1086
23513 Groesbeck Highway
Warren, MI 48090

Ship To: Prestlge Stampling Inc
PO Box 1086
23513 Groesbeck Highway
Warren, MI 48090

Bill of Lading: 923909 Date: 3/01/10 Order: 2216965-1 Part: P1480HP200
PO#: 17331 REL 01 Rel: Alt PO: Alt Part:
HOT ROLLED PICKLED AND OILED F436 MELTED & MFG IN USA 0.1220Min X 5.5000" X Coil

Tag #	Pkg #	Heat	Weight
632466-P11G	889590	4170694	2638
632466-P11H	889590	4170694	2638
632466-P11I	889589	4170694	2638
632466-P11J	889589	4170694	2638
632466-P11K		4170694	2638
632466-P12G	889073	4170694	2485
632466-P12H	889073	4170694	2485
632466-P12I	889074	4170694	2485
632466-P12J	889074	4170694	2485
632466-P12K		4170694	2485
632576-P11D	889951	4170694	2313
632576-P11E	889951	4170694	2313
632576-P11F	889947	4170694	2313
632576-P11G	889947	4170694	2313
632576-P12D	890055	4170694	2311
632576-P12E	890055	4170694	2311
632576-P12F	890054	4170694	2311
632576-P12G	890054	4170694	2311
632608-P11D	889981	4170694	2303
632608-P11E	889981	4170694	2303
632608-P11F	889980	4170694	2303
632608-P11G	889980	4170694	2303
632608-P12D	890111	4170694	2253
632608-P12E	890111	4170694	2253
632608-P12F	890110	4170694	2253
632608-P12G	890110	4170694	2253

Heat	C	Mn	P	S	Al	Si	V	Nb	Ni
4170694	0.3400	1.2800	0.0130	0.0010	0.0600	0.1800	0.0040	0.0000	0.0200
	Cr	Cu	Mo	N	Ti	CB	SN	B	CO
	0.0400	0.0400	0.0100	0.0062	0.0040	0.0000	0.0060	0.0002	0.0000

RECEIVED

We certify that the manufacturer of the material described above has supplied the chemical analysis stated herein.

David D. Smith
Kenwal Steel Corp.

MAR 01 2010

Time 8:30 Am P.M.

Feb. 26. 2010 5:57AM

C2277
P. 12/15

ADVANCE SHIP NOTICE
1391664

ArcelorMittal Cleveland Inc.

ArcelorMittal

REV. 0 DATE SHIPPED 02/18/2010

BILL OF LADING 01391664	CARRIER Dearborn Steel Express	CAR/TRAILER NBR 2059	ARRIVAL DATE
FREIGHT PAYMENT Collect	NET WEIGHT 36590 LBS	TARE WEIGHT	
SHIP TO (000562-002) KENWAL STEEL CORPORATION 8223 WEST WARREN DOCK 2 DEARBORN, MI 48126			
ATTENTION: TIM CERNUTO			

TRUCK FLATBED - EYE PARALLEL CARRIER LENGTH - 12" MIN SPACE
BETWEEN COILS
ROUTE: CSXT DIRECT
CONTRACT NBR: CSXT 3313

OUR ORDER: 451952

YOUR P.O. # 65245-4
ALT P.O. #

FOB: FOB Mill

36590 LBS / 1 Coil

001 HY1274085-01
0.1275 Nom -0.0060 / +0.0060 X 40.8500 + 1.1250 ME (IN)
ID 30.0/30.0 OD 0.0/72.6 (IN)
Hot Band Reap Carbon 9999
Primeside Up R/A

END USE: Resale UEXP

Melted and Manufactured in the USA
STANDARD MILL MARKINGS
1 OD AND 2 ID EQUALLY SPACED 1-1/4" BANDS TARP

LOT NBR	W.O. #	QUANTITY UM
4170694	FD5585	36590 LBS / 1 Coil

TEST CLASS	LOT NBR	C E R T I F I C A T I O N - - - - - P R O P E R T I E S - - - - -													
		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	V	Cb	N
Chemical:	4170694	0.3400	1.2800	0.0130	0.0010	0.1800	0.0400	0.0200							
		0.0400	0.0100	0.0060	0.0600	0.0040	0.0000	0.0062							
		0.0002		0.0040	0.0030	0.0029									

TAG NBR	W.O. #	LOT NBR	GAUGE (IN)	WIDTH (IN)	D E T A I L - - - - -	
					QUANTITY UM	WEIGHT UM
741659	FD5585	4170694	0.1279	41.5710	36590 LBS	36590 LBS

INVOICE BILL TO: **KENWAL STEEL CORPORATION**
8223 WEST WARREN
DEARBORN, MI 48126

C2277
3-1-10

LOT #: 031610 pg.1 of 1

TEST REPORT

SLSB, LLC dba St. Louis Screw & Bolt
 2000 Access Blvd.
 PO Box 260
 Madison, IL 62060
 PH: 800-237-7059
 FAX: 314-389-7510



PRODUCTION INFORMATION:						
PART#:	SIZE:	LOT#:	DESCRIPTION:	ASTM SPEC:	MFG DATE:	FINISH:
AAA075450	3/4(10)UNC2AX4-1/2	031610	HHS	A325-1 09	8/11/10	PLAIN

CHEMISTRY FROM RAW MATERIAL SUPPLIER:			
GRADE:	HEAT NO:	ASTM SPEC:	STEEL MILL SUPPLIER:
1045	10062100	A-29	BETA

Handwritten: P-O-# 16829

CHEMICAL CONTENTS											
C	MN	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al	N
0.44	0.76	0.0090	0.0110	0.20	0.04	0.16	0.020	0.07		0.0030	

MECHANICAL PROPERTIES:								PCS SAMPLED	LOT PASSED
PRODUCTION QTY	PCS SAMPLED	ISSUE DATE	SAMPLED BY	TESTED BY	H.T. PO#	TEST METHODS	VISUAL INSPECTION PER		
10,297	5	8/13/10	RC	RC	972153-01	ASTM F606	ASTM F788 15	5	PASSED

TENSILE STRENGTH		PROOF LOAD TEST		HARDNESS	
WEDGE	LBS.	LBS.		SURFACE	CORE
10 DEGREE	40,100	28,400		28.	N/A

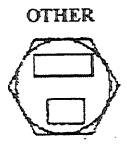
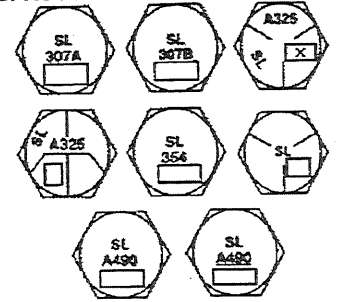
	SAMPLES								AVG.
	1	2	3	4	5	6	7	8	
TENSILE LOAD	47300	47600	47300	47000	47000				47,240
PROOF LOAD ELONGAGTION	.0004	.0001	.0002	.0000	.0002				.0002
HRC- SURF	27.8	28.1	29.1	28.3	28.5				28.
HRC-CORE									

The SLSB LLC Laboratory has been accredited by the American Association for Laboratory Accreditation in the field of mechanical and fastener testing for the tests listed above, certificate# 0696-01. The sampling plan meets or exceeds F147D Sample Size C or applicable specification. The steel was made and melted in the USA, and the product was tested by SLSB LLC, St. Louis, MO, USA, free of mercury contamination. We certify that the samples tested conform to the ASTM specification listed above, and the date is a true representation of the information provided by the material supplier and our testing laboratory. This test certificate relates only to the items listed on this document and may not be reported or distributed except in full. Thread fit and dimensional requirements are compliant to ANSI B18.2.6 specification.

Signed: *Michael Jones* Date: 8/13/10

AMENDED **
 DATE: INITIAL:

MANUFACTURERS ID HEAD MARKING: SL



*Heats of steel used have not had not had the following materials intentionally added: bismuth, selenium, tellurium, or lead.

** Indicates the amended item, when and by whom.



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

FILE

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Beta Steel
44225 Utica Rd.
Laurie Dailey
Utica, MI-48318

Cust P.O.	242279
Customer Part #	1046M0100SC(SW1045M-B)
Charter Steel Order #	30013610
Heat #	10062100
Ship Lot #	1009196
Grade	1045 M SK CG RHQ 49/64
Process	HR
Finish Size	49/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10092100

Lab Code: 7388	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
CHEM	.44	.76	.009	.011	.2	.04	.16	.02	.07	.01	.001
%WT											
	AL	N	B	TI	NB						
	.003	.006	.0001	.001	.001						

SIZE LAB
0358-01

RAIN SIZE RAIN SIZE
2 4

CHEM. DEVIATION EXT. - GREEN =

# of Tests	Test Results of Rolling Lot# 1009196		Mean Value
	Min Value	Max Value	
NUM DECARB = 1			
AVE DECARB = .003			
REDUCTION RATIO = 66:1			

Specifications: Manufactured per Charter Steel Quality Manual Rev 8,12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = PS-1 Revision = , Dated = 11-MAR-08

Additional Comments:

Charter Steel
Saukville, WI, USA



Page 1 of 1

Janice Barnard
Janice Barnard
Manager of Quality Assurance
05/21/2010

Rem: Load1, Fax0, Mail0

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSSR/ CSSP	Charter Steel Rolling/ Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSCM/ CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004
.	.	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSSM, CSCM/CSCR	ASTM E415; ASTM E1019
X-ray Fluorescence Stainless and Alloy Steel	CSCM/CSCR	ASTM E572
Macroetch	CSSM, CSCM/CSCR	ASTM E381
Hardenability (Jominy)	CSSM, CSCM/CSCR	ASTM A255; SAE J406; JIS G0561
Grain Size	CSSM	ASTM E112
Tensile Test	CSSR/CSSP, CSFP, CSCM/CSCR	ASTM E8; ASTM A370
Rockwell Hardness	All labs	ASTM E18; ASTM A370
Microstructure (spheroidization)	SCCR/CSSP, CSFP	ASTM A892
Inclusion Content (Methods A, E)	SCCR/CSSP, CSCM/CSCR	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/11.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



ST. LOUIS SCREW & BOLT COMPANY

PHONE: (314) 389-7500
 FAX: (314) 389-7510

6800 NO. BROADWAY
 ST. LOUIS, MO 63147
 (800) 237-7059

Date: 11/29/2004

Certification No: SL- 122601300

TEST CERTIFICATE

Page 1 of 1

CUSTOMER INFORMATION

Name: HAYDON BOLTS INC.
 Address:
 City, State, Zip:

PO No: A13230
 Quantity: 500
 Order No.: S03515

PRODUCTION INFORMATION

Part No.: AAA076475
 Description: HEAVY HEX STRUCTURAL
 Finish: PLAIN
 Size: 3/4 - 10 UNC 2A x 4 3/4
 ASTM Spec: A325-1-01

Lot No.: 23682
 Mfg. Date: 12/15/2001

STEEL CHEMISTRY FROM RAW MATERIAL SUPPLIER

Grade: 1045
 Steel Mill / Supplier: Charter
 Heat No.: 178190

ASTM Spec: A29

C	MN	P	S	SI	CU	NI	CR	MO	AL
0.17	0.64	0.009	0.008	0.2	0.08	0.06	0.12	0.02	0.002

MECHANICAL PROPERTIES

Production Quantity: 10480
 Pc's Sampled: 8
 Test Report Issue Date: 12/26/2001

Sampled By: BW
 H.T. PO: 375829-01

Tested By: BW
 Test Methods: F008

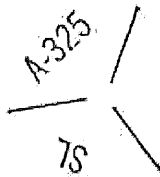
Visual Head Burial Inspection per ASTM A325-1-01 315 Pc's Sampled Lot Passed

Tensile Strength	Proof Load Test				Hardness	Core
	Wedge	Lbs	Elong	Surface		
10 DEG	40100	26400	28.4			
Avg	48000	0.0000	29.4		0.0	
Tensile Load	48800	48500	49700	49400	48800	0
Proof Load	0	0	0	0.0001	0	0
HRC - SURF	28.3	30.1	29.5	29.8	28.3	0.0
HRC - CORE	0.0	0.0	0.0	0.0	0.0	0.0

COATING THICKNESS

Plating Specs: 0
 Pieces Sampled: 0
 Plating PD: 0
 Test Method: 0
 Avg 0.00

MANUFACTURERS ID HEAD MARKING: 8L

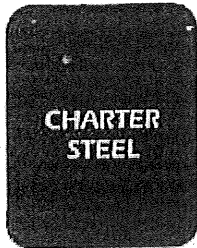


The St. Louis Screw & Bolt Co. testing laboratory has been accredited by the American Association for Laboratory Accreditation in the field of mechanical and fastener testing for the tests listed above, certificate #0686-01. The sampling plan meets or exceeds that which is required by the bolt spec or the FDA. The steel was made and rolled in the USA, and the product was manufactured and tested by St. Louis Screw & Bolt Co., St. Louis, MO, USA, free of mercury contamination. We certify that the samples tested conform to the ASTM specification listed above, and the data is a true representation of the information provided by the material supplier and our testing laboratory. This test certificate relates only to the items listed on this document and may not be reported or distributed except in full. Thread fit and dimensional requirements are compliant to ANSI B18.2.8 specification.

Signed: James Phelps
 JAMES PHELPS

Title: CERTIFICATIONS

LOAD



CHARTER STEEL

A Division of
 Charter Manufacturing Company, Inc.

1658 Cold Springs Road
 Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

Beta Steel
 44226 Utica Rd.
 Utica, MI 48318
 Attn: Arnold Bornstein

Cust. P.O. 53070-6
 Cust Part#
 Charter Sales Order 118996
 Heat # 178190
 Ship Lot # 339073
 Grade# 1045 M SK CG RHQ
 Process SA
 Finish Size 49/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements.

Test Results of Melting Heat# 178190																
Chemistry	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	V	Al	N			
Wt%	0.47	0.84	0.009	0.008	0.20	0.06	0.12	0.02	0.08	0.005	0.00	0.002	0.0060			
	B	Ti	Ca	O	Ca	Sb	As	Pb	Zr	W	Co	Se	Ta			
	0.0001	0.002	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R			
Hardness (HRC)	J1	J2	J3	J4	J5	J6	J7	J8	J10	J12	J14	J16	J20	J24	J28	J32
	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
Sample Type	N/R															
DI = 0.00	Mcquaid-Elli Grain Size Comparison = N/R - N/R Intercept = N/R															
Cleanliness	ASTM-E45 Method A				SAM				Macroetch							
	A B C D				B N/R				S - N/R							
Thin	N/R				N/R				R - N/R							
Heavy	N/R				N/R				G - N/R							
Lab Code:	7388															

Test Results of Rolling Lot # 220640				
	# of Tests	Min Value	Max Value	Mean Value
Tensile (KSI)	N/R	N/R	N/R	N/R
Reduction of Area (%)	N/R	N/R	N/R	N/R
Rockwell Hardness (HRB)	N/R	N/R	N/R	N/R
Rockwell Hardness (HRC)	N/R	N/R	N/R	N/R
Size (Inches)	N/R	N/R	N/R	N/R
Out of Round (Inches)	N/R	N/R	N/R	N/R
Decarburization II	# of Tests =	Free Ferrite = N/R		Partial = N/R
Reduction Ratio = N/R	Deviation =	Deviation =		Max Defect Depth = N/R
Lab Code:	8171			

Test Results of Processing Lot # 339073				
	# of Tests	Min Value	Max Value	Mean Value
Tensile (KSI)	2	72.2	73.3	72.7
Reduction of Area (%)	2	56.5	61.0	58.7
Rockwell Hardness (HRB)	2	74.0	77.5	75.8
Rockwell Hardness (HRC)	N/R	N/R	N/R	N/R
Size (Inches)	N/R	N/R	N/R	N/R
Out of Round (Inches)	N/R	N/R	N/R	N/R
Decarburization	# of Tests = 2	Free Ferrite = 0.0000		Partial = 0.0010
Spineloidization	# of Tests = 2	Min % = 80	ASTM A892	CS = N/R CN = N/R LC = N/R
Deviation =				
Lab Code:	8171			

Specifications: Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
 Customer Document # Revision # Dated #

Additional Comments:

11-9-0
 B. Witherspoon

Regis J. Leonard

Regis J. Leonard
 Quality Assurance Manager
 11/07/2001 Page 1 of 2

Fax number: 8103236806

Rem: Lead 1, Mail 0, Fax 1



- The following statements are applicable to the material described on the front of this Test Report:
1. Except as noted, the steel supplied for this order was melted, rolled and processed in the United States.
 2. Mercury was not used during the manufacture of this product; nor was the steel contaminated with mercury during processing.
 3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
 4. If results appear on the front of this report for the following tests, they were performed according to the listed specifications:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSMD	ASTM E415-99a; ASTM E1019-94e1
Macroetch	CSMD	ASTM E381-98
Hardenability (Jominy)	CSMD	ASTM A255-99
Grain Size	CSMD	ASTM E112-96e1
Tensile Test	CSR/D/CSPD, P4	ASTM E8-00; ASTM A370-97a
Rockwell Hardness	CSR/D/CSPD, P4	ASTM E18-98; ASTM A370-97a
Microstructure (spheroidization)	CSR/D/CSPD, P4	ASTM A892-88(1995)e1
Cleanliness	CSR/D/CSPD	ASTM E45-97e2

Charter Steel has been accredited to perform the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/03.

Other test results that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

Where multiple laboratories are listed above, the laboratory used depends on the process flow of the material. The lab code on the front of this document identifies the actual laboratory that generated the test results.

	Laboratory	A2LA Lab Code	Address
CSMD	Charter Steel Melting Division	7388	1658 Cold Springs Road, Saukville, WI 53080
CSR/D/CSPD	Charter Steel Rolling/Processing Division	8171	1658 Cold Springs Road, Saukville, WI 53080
P4	Charter Steel Ohio Processing Division	123633	6255 US Highway 23, Risingsun, OH 43457

5. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
6. This test report cannot be reproduced or distributed, except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report, subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
7. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgment (designated by our Purchase Order number) to the customer's purchase order. Both Purchase Order numbers appear on the front page of this Report.
8. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.
9. Any test results obtained by a subcontractor to Charter Steel are noted on the front of this test report.





TEST REPORT

Operations Center
 3281 West County Road 0 NS
 Frankfort, IN 46041-6966
 T. 765.654.0477
 F. 765.654.0857

Ship Date	10-28-09
Certification	238500*5*4
Report Date	10-30-09

Cust PO	SL30294
Lot Nbr	636051
Quantity	2089
Mfg Date	10-07-09

St. Louis Screw & Bolt
 2000 ACCESS BLVD
 MIKE GILL
 MADISON, IL 62060

PART INFORMATION

Part Number	AAA075500	Finish	PLAIN
Description	3/4-10 X 5 A325-1 HEAVY HEX STRUCTURAL BOLT	Head Marking	A325 TYPE 1 - 1 DOT SL

RAW MATERIAL ANALYSIS

Steel Heat Nbr	Steel Supplier	Steel Grade	Code	Element	Percent
CR10019330	Charter Steel	30MnCrB1	C	Carbon	0.32
			Mn	Manganese	0.94
			P	Phosphorus	0.008
			S	Sulfur	0.009
			Si	Silicon	0.220
			Ni	Nickel	0.05
			Cr	Chromium	0.18
			Mo	Molybdenum	0.08
			Cu	Copper	0.08
			Al	Aluminum	0.025
			B	Boron	0.0029
			Ti	Titanium	0.022

Certification test results include those reported by the following laboratories:

Charter Steel, A2LA, 01-31-09

LEP Special Fasteners, Inc, A2LA 0122.02, 05-31-10

MECHANICAL PROPERTIES

Wedge Angle	10			
Proof Load	28400/85000 (lbs/Psi)			
Test Performed	High	Low	Average	Samples
Tensile, PSI	151000	149000	149625	8
Proof Load Elongation	0.0005	0.0001	0.0002	10
Superficial R30N	52	50	51	8
Core Hardness, HRC	29	27	28	8



TEST REPORT

Operations Center
3281 West County Road 0 NS
Frankfort, IN 46041-6966
T. 765.654.0477
F. 765.654.0857

Ship Date	10-28-09
Certification	238500*5*4
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Lot Nbr	636051
Quantity	2089
Mfg Date	10-07-09

St. Louis Screw & Bolt
2000 ACCESS BLVD
MIKE GILL
MADISON, IL 62060

Applicable Standards, Specifications, and Sampling Schemes:

Results reported in the mechanical properties section were determined in accordance with the following test methods: ASTM A370, E18, F606/M. Dimensional properties are compliant to ASTM B18.2.6. Product passed a surface discontinuity inspection following ASTM F788/M. The sampling plan is based off ASTM F1470 - Prevention. Product was not produced from heats in which Bismuth, Selenium, Tellurium, or Lead was intentionally added, nor were they exposed to Mercury or any other metal alloy that is liquid at ambient temperature during processing or while in our possession. Product was manufactured in the U.S.A. from domestic material. ASTM A490 Type 1 and Type 3 bolts passed *magnetic particle inspection for surface discontinuities per ASTM E709 and E1444. *Magnetic particle inspection is not included in our laboratory scope of accreditation.

The listed standards, specifications, and sampling schemes are of the revision in effect on the date of manufacture unless noted otherwise. Only those standards specifically noted under "test methods" or "additional test methods" are included on LE's scope of laboratory accreditation.

Additional Information

None

This lot has been found to conform to the requirements of the above standards and specifications

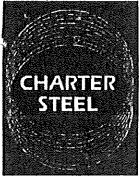
We certify: The product furnished by LEP Special Fasteners was manufactured, sampled, tested, and inspected in accordance with the standards and specifications listed above and with LEP Special Fasteners Quality Manual in effect as of the date of manufacture. The above data accurately represents values provided by LEP Special Fasteners suppliers and/or values generated in one of LEP Special Fasteners A2LA accredited laboratories. Statistical process control data is on file.
This test report relates only to the sample tested above. This document may only be reproduced unaltered and may not be used for any purpose other than the purpose of certifying the same or lesser quantity of the product specified herein. Reproduction, alteration or use of this document for any other purpose is prohibited, except as expressly provided in this certification. LEP Special Fasteners makes no (and disclaims all) representations, warranties and guarantees whatsoever, whether express, implied or statutory, including, without limitation, any warranty of merchantability or fitness for a particular purpose.

LEP Special Fasteners

Michael A. Schwark
Director of Engineering/Quality Manager



CERT #0122.02
"MECHANICAL FIELD OF TESTING"



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 Reverse Has Text And Codes

LEP Special Fasteners Inc.
3595 West State Road 28
John Shambora
Frankfort, IN-46041
Kind Attn : John Shambora

Cust P.O.	75704
Customer Part #	955611984A1
Charter Sales Order	10005862
Heat #	10019330
Ship Lot #	586466
Grade	LEBA1 M SK FG RHQ 25/32
Process	HRCC
Finish Size	25/32

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10019330

Lab Code: 7388												
CHEM	C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
%Wt	.32	.94	.008	.009	.22	.05	.18	.08	.08	.005	.003	
	AL	N	B	TI	NB							
	.025	.006	.0029	.022	.001							

CHEM. DEVIATION EXT.-GREEN N/R =												
JOMINY(HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM11	JOM12
	54	53	52	51	50	48	43	36	32	29	27	27
	JOM13	JOM14	JOM15	JOM16	JOM18	JOM20	JOM22	JOM24	JOM26			
	26	25	24	24	23	22	21	20	20			

JOMINY SAMPLE TYPE ENGLISH = R JOMINY LAB = 0358-01 DI = 3.27

Test Results of Rolling Lot# 425404

	# of Tests	Min Value	Max Value	Mean Value	
TENSILE	2	90.1	90.8	90.5	TENSILE LAB = 0358-02
REDUCTION OF AREA	2	54	57	56	RA LAB = 0358-02
ROCKWELL B	2	84	88	86	RB LAB = 0358-02
ROD SIZE	14	.774	.789	.784	
ROD OUT OF ROUND	4	.004	.012	.007	

NUM DECARB = 1 AVE DECARB = .004
REDUCTION RATIO = 63:1

Specifications: Manufactured per Charter Steel Quality Manual Rev 8,12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = LE 1.1 Revision = 9 Dated = 27-NOV-07

Additional Comments: GRADE 30 Cr Mn B1

Charter Steel
Saukville, WI, USA



Janice Barnard
Manager of Quality Assurance
09/04/2009

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSMD	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSR/CDPD	Charter Steel Rolling/Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	P4	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSC	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004
358.05	128003	CSDT	Charter Steel Detroit	23860 Sherwood Ave. Center Line, MI 48015
*	*	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSMD, CSC	ASTM E415; ASTM E1019
X-ray Fluorescence Stainless and Alloy Steel	CSC	ASTM E572
Macroetch	CSMD, CSC	ASTM E381
Hardenability (Jominy)	CSMD, CSC	ASTM A255; SAE J406; JIS G0561
Grain Size	CSMD	ASTM E112
Tensile Test	CSR/CDPD, P4, CSC, CSDT	ASTM E8; ASTM A370
Rockwell Hardness	CSMD, CSR/CDPD, P4, CSC, CSDT	ASTM E18; ASTM A370
Microstructure (spheroidization)	CSR/CDPD, P4	ASTM A892
Inclusion Content (Methods A, E)	CSR/CDPD, CSC	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/09.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Purchase Order number) to the customer's purchase order. Both Purchase Order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



DECKER

MANUFACTURING CORPORATION

MANUFACTURERS OF INDUSTRIAL FASTENERS & PIPE PLUGS
703 North Clark Street Albion, Michigan 49224



Phone 517-629-3955
Fax 517-629-3535
Sales Fax 517-629-8424
www.deckernut.com

August 9, 2010

HAYDON BOLTS INC
1181 UNITY STREET
PHILADELPHIA, PA 191243196

PRODUCT MATERIAL CERTIFICATION

CUSTOMER PART NUMBER: VUC075
CUSTOMER P.O. NUMBER: Z05163

INVOICE: 74355

LOT NUMBER: 10-35-035

DESCRIPTION: 3/4-10 HVY HX A563

DATE: Jun 22, 2010

QUANTITY: 108,000

HEAT NUMBER: 10059630

MATERIAL SUPPLIER: Charter Steel

MATERIAL: STEEL - C1020

We certify the product above was manufactured at DECKER MANUFACTURING CORPORATION from the specified raw material and that said product is certified to be manufactured, randomly sampled, tested and/or inspected and conforms to applicable specifications. We additionally certify that said raw material was domestically manufactured in the United States of America and that said raw material was manufactured free of mercury contamination.

The items were processed under the Decker Quality Manual. The current revision is dated January 12, 2005
No welding was performed.

This document accurately represents values and statements provided by our suppliers accredited testing facility. The original metallurgical test report shall be retained on file by DECKER MANUFACTURING CORPORATION for a period of not less than (10) years.

CHEMICAL ANALYSIS BY MATERIAL SUPPLIER

CARBON: 0.190

PHOSPHOROUS: 0.007

MANGANESE: 0.400

SULFUR: 0.014

DECKER MANUFACTURING CORPORATION

Russel L. Wilson
Quality Assurance Manager

The above results pertain only to the items tested. This report shall not be reproduced except in full without the approval of this testing facility.

DECKER

MANUFACTURING CORPORATION

MANUFACTURERS OF INDUSTRIAL FASTENERS & PIPE PLUGS
703 North Clark Street Albion, Michigan 49224



Phone 517-628-3655
Fax 517-628-3635
Sales Fax 517-628-8424
www.deckermfg.com

LABORATORY AND TESTING FACILITY
Reaffirmed to be in compliance to current Rev Level, Form 8.0
ORIGINAL LABORATORY AND/OR INSPECTION REPORT
THIS IS A LEGAL DOCUMENT

NAME AND ADDRESS OF CLIENT: _____ DATE OF MANUFACTURE: 7-1-2010
 PAGE _____ OF _____ LAB FILE ID NUMBER/LOT NUMBER: 10-35-035
 DMC PART NUMBER: 239-1011
 ITEM DESCRIPTION: 3/4 x 1 1/2 ZB HEAVY HEX NUT
 GRADE ID MARK AND INSIGNIA: ASTM A563 GRADE C + D
 NAME(S) OF PERSON(S) SAMPLING: D. OSPALIX P-110415 SAMPLING
 PROCEDURES ARE UNDER THE SUPERVISION OF DECKER MANUFACTURING CORPORATION'S QUALITY
 DEPARTMENT
 PRODUCTION LOT SIZE: 500M SUITABILITY/CONDITION OF TEST SPECIMENS: ACCEPTABLE
 TOTAL NO. OF SAMPLES INSPECTED AND/OR TESTED: (8) EIGHT
 INSPECTIONS AND/OR TESTS: _____
 INSPECTION TEST DATE(S): 7-1-10 _____
 DESCRIPTION(S): ROCKWELL HRB PROOF LOAD _____
 SPECIFICATION(S): ASTM E108 _____
 REQUIREMENTS: ASTM A563 GRADE C & D HRB 7 MIN & HRB 34 MAX # _____
 EQUIPMENT ID #: 80173407 # 184280

UNIT OF MEASUREMENT		HRB W	UNIT OF MEASUREMENT		LBR
(1)	89.5	(5)	89	(1)	49,130
(2)	89.5	(6)	89	(2)	49,130
(3)	89.5	(7)	89	(3)	49,130
(4)	87.5	(8)	87.5	(4)	49,110

RESULTS OBTAINED FROM: WARRICK FLORES
 SPECIFICATION OR MATERIAL GRADE AS EVIDENCED: C-1080
 REMARKS OR DEVIATIONS: PER ASTM E606 SECTION 4 THE HARDNESS OF EACH SAMPLE IS THE AVERAGE OF TWO READINGS AND EACH READING MUST BE WITHIN THE PRODUCT SPECIFICATION HEAT TREAT SURFACE TREATMENT COATING ETC
 TO THE SPECIFICATIONS ABOVE THE SAMPLES INSPECTED AND/OR TESTED
 CONFORM ARE RESULTS ONLY: _____ DO NOT CONFORM: _____

APPROVED SIGNATORY
 QUALITY MANAGER

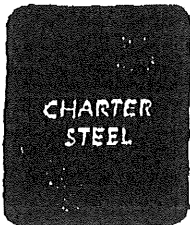
 Russell L. Wilson

INSPECTED AND/OR TESTED BY:

 Authorized Lab Technician

I CERTIFY THAT THE ABOVE TEST(S) WERE CONDUCTED IN ACCORDANCE WITH THE ABOVE STATED SPECIFICATION(S) AND THAT THE RESULTS ARE CORRECT AS ENTERED. THE ABOVE RESULTS ONLY PERTAIN TO THE SAMPLE ITEM(S) TESTED. SEE THE QUALITY MANUAL FOR MANDATORY REPORT CONTENT. THIS DOCUMENT SHALL NOT BE REPRODUCED IN FULL WITHOUT THE APPROVAL OF DECKER MANUFACTURING CORPORATION. DO NOT ERASE OR ALTER ANY ERRORS. DRAW A STRAIGHT LINE THROUGH AND INITIAL. SEE REVERSE OF THIS DOCUMENT FOR THE TERMS AND CONDITIONS OF THIS TEST REPORT.





CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

FAX

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

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

JK

Decker Manufacturing Corp.
703 N. Clark St.
Steve Konkle
Albion, MI-49224
Kind Attn :Steve Konkle

Cust. P.O.	45379
Customer Part #	135138
Charter Sales Order	30015377
Heat #	10059630
Ship Lot #	4023431
Grade	1020 A AK FG RHQ 1-1/8
Process	HRCC
Finish Size	1-1/8

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 10059630

Lab Code: 7388	C	MN	P	S	SI	M	CR	MO	CU	SN	V
CHEM %WT	.19	.40	.007	.014	.10	.05	.08	.02	.09	.008	.001
	AL	N	B	TI	NB						
	.024	.0080	.0002	.001	.001						

CHEM. DEVIATION EXT. - GREEN -

Test Results of Rolling Lot# 1012082

	# of Tests	Min Value	Max Value	Mean Value	RB LAB = 0358-02
ROCKWELL B	1	68	68	68	
ROD SIZE	6	1.124	1.131	1.128	
RQD OUT OF ROUND	2	.006	.007	.007	
REDUCTION RATIO = 30:1					

Specifications: Manufactured per Charter Steel Quality Manual Rev 8.12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = Revision = Dated =

Additional Comments: Fax Number - 517-629-3535

Charter Steel
Saukville, WI, USA



Page 1 of 1

Rem: Load0, Fax1, Mail0

Testing Laboratory

Janice Barnard
Janice Barnard
Manager of Quality Assurance
08/20/2010

*10059630
1.125*

**Prestige
Stamping
Inc.**



23513 Groesbeck Highway, Post Office Box 1086
Warren, Michigan 48090-1086
(586) 773-2700 * Fax (586) 773-2290
www.prestigestamping.com

PRODUCT CERTIFICATION

CERTIFICATION NUMBER

77868

THIS IS TO CERTIFY THE PRODUCT STATED BELOW WAS FABRICATED AND PROCESSED TO THE ORDER AS INDICATED AND CONFORMS TO THE APPLICABLE SPECIFICATIONS AND STANDARDS.

Customer: HAYDON BOLTS INC
ACCTS PAYABLE DEPT
1181 UNITY ST
PHILADELPHIA, PA 19124-3196

Customer Part: 3/4"-F436-PLN	Steel Supplier: MID-STATE INDUSTRIES
Prestige Part: P1480H00	Grade: CF436 GRADE STEEL
Part Name: 3/4"F436 PLN	Lot: C2665
Purchase Order: 205321-1	Heat: A23568
Shipment ID: A0146791	Carbon: .31
Quantity: 88200	Manganese: 1.28
Manufacturers Marking: "p"	Phosphorous: .009
	Sulfur: .002
	Silicon: .190

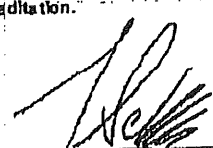
SPECIFICATIONS

HARDNESS: TEST METHOD: ASTM B18
HRC 38 - 45
CHECK TO ASTM F606

TEST RESULTS

HARDNESS:
HRC 39 - 42

Chemistry is as reported from raw material certification and does not fall under Prestige Stamping's accreditation.
This product was produced under an ISO/TS 16949 Quality Assurance System.
ISO/TS 16949 Certification No: 0082933.
Material was melted and manufactured in the U.S.A.
This product was manufactured in Warren, Michigan U.S.A.
This product conforms to all requirements for washers as produced according to A.S.T.M. F-436.
Sampling Plan per P.S.I W.I. # 6.4.18.015.
The test results only apply to the items tested.
This test report must not be reproduced except in full without prior written approval.
Materials used to manufacture these products are mercury, asbestos and radio activity free.


FRANK SCHUBERT
Quality Assurance Manager

C2665

Mid-State Industries, LLC

908 Bob King Drive P.O. Box 68
Arcola, IL 61910

Office: 217-268-3900
Fax: 217-268-3906

Material Certification of Analysis

Customer: Prestige Stamping Inc
23513 Groesbeck Highway
Warren, Michigan 48090

Date: May 27 2010

Description: 122 x 5.500 x coil

Part#: P1480H00

Mid-State Coil #: R21961 Master Coil#: 812759

Material chemical weight percent composition:

The chemical analysis hereby reported was supplied by the producing mill and provided certification is maintained in the records of the corporation.

Heat #: A23568

Grade: F436

PO: 17721

Carbon: 0.31

Manganese: 1.280

Phosphorus: 0.002

Sulfur: 0.002

Silicon: 0.190

Aluminum: 0.035

Melted & MFG in USA

RECEIVED

MAY 27 2010

Time 8:00AM ON

ADVANCE SHIP NOTICE
1428474

ArcelorMittal Riverdale Inc.

5-27-10
C2605

REV. 0 DATE SHIPPED 05/20/2010

BILL OF LADING 01428474	CARRIER Great American Lines	CAR/TRAILER NBR 61505	ARRIVAL DATE
FREIGHT PAYMENT Collect	NET WEIGHT 15310 LBS	TARE WEIGHT	
SHIP TO (000070-000) MID-STATE INDUSTRIES, LLC 908 BOB KING DRIVE P.O. BOX 68 ARCOLA, IL 61910 ATTENTION: Rod S			



OUR ORDER: 466837 YOUR P.O.: MR1000-045 FOB: FOB Mill
ALT P.O. 1

001 HB-SALVAGE60/90 15310 LBS / 1 Coil
0.1160 Nom -0.0120/ +0.0120 X 61.9000 + 1.1250 HE(IN)
XD 0.0/0.0 OD 0.0/0.0 (IN)
Hot Brand Salvage Carbon Salvage
C R/A

END USE: SECONDARY USE
COILS
812759
812764

LOT NBR W.O. # QUANTITY UM
A23568 15310 LBS / 1 Coil

C E R T I F I C A T I O N

TEST CLASS	LOT NBR	P R O P E R T I E S							
Chemical	A23568	C	Mn	P	S	Si	Cu	Ni	
		0.3100	1.2800	0.0000	0.0020	0.1900	0.0400	0.0100	
		Cr	Mo	Sn	Al	V	Cb	N	
		0.0300	0.0050	0.0020	0.0350	0.0070	0.0000	0.0028	
		B	Zr	Ti	Sb	Ca	O		
		0.0003	0.0020	0.0030	0.0000	0.0020			

D E T A I L

TAG NBR	W.O. #	LOT NBR	GAUGE (IN)	WIDTH (IN)	QUANTITY UM	WEIGHT UM
812759		A23568	0.1310	60.0899	15310 LBS	19310. LBS

INVOICE BILL TO: MID-STATE INDUSTRIES, LLC
809 SOUTH HAMILTON STREET
SULLIVAN, IL 61951

Customer Name
JAMES A MCBRADY INC

Customer PO#
16817

Invoice No
83100

Shipper No
74212

Heat Number
758051

Atlas Tube Canada ULC
200 Clark St.
Harrow, Ontario, Canada
NOR 1G0
Tel: 519-738-3541
Fax: 519-738-3537



Ref.B/L: 80408652
Date: 12.11.2010
Customer: 81

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Handwritten: P.O.# 16817 16817

Material: 8.0x3.0x250x20'0"0(2x3)PB

Material No: 80030250

Made in: Canada

Melted in: Canada

Sales order: 600212

Purchase Order: NE-28189 MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
758051	0.200	0.800	0.015	0.006	0.015	0.000	0.050	0.005	0.004	0.013	0.055	0.002	0.000	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.35
M100990466	6	059410 Psi	072890 Psi	34.5 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x8.0x188x50'0"0(2x2).

Material No: 80080188

Made in: Canada

Melted in: Canada

Sales order: 594605

Purchase Order: NE-26559

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
757901	0.190	0.810	0.010	0.006	0.013	0.000	0.089	0.005	0.005	0.015	0.050	0.002	0.000	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.34
M200710643	1	051320 Psi	063510 Psi	32.5 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x8.0x188x50'0"0(2x2).

Material No: 80080188

Made in: Canada

Melted in: Canada

Sales order: 594805

Purchase Order: NE-26559

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
757962	0.180	0.730	0.006	0.006	0.012	0.000	0.050	0.004	0.003	0.012	0.031	0.002	0.000	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.32
M200710643	3	053060 Psi	065040 Psi	32.3 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Handwritten signature: M. Whelan

Authorized by Quality Assurance:
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.
Certification used is per the AWS D1.1 method.



Nicholas Galvanizing
120 Daffield Avenue
Jersey City, NJ 07306

PO # 14416

Quality-Service-Commitment

**CERTIFICATION
OF
CONFORMANCE**

HAYDEN BOLT
PO# 2075

November 29, 2010

All materials listed herein have been galvanized and inspected in accordance to ASTM A153/F2329 and meet or exceed all applicable specifications.

- 40 PCS 1 1/8" (11) X 16" A325 HEAVY HEX HEAD
- 64 PCS 1 1/8" (80) X 64" ROD A449
- 40 PCS 2 1/2" (4) X 84" ROD A449
- 28 PCS 2 1/2" (4) X 61 1/2" A449 HDG ROD 6" X 6"
- 3 PCS 1 1/2" (7) X 111 3/8" ROD F1554 GR55
- 52 PCS 5/8" (11) F1554 GR55 ROUND BEND
- 98 PCS 5/8" (11) X 15" A449 ALL THREAD STUD
- 100 PCS 3/4" (10) X 14" A325 HVY HEX A 3/8 THD HDG
- 30 PCS 1/2" (13) X 10" ALL THD ROD A193 GRB7
- 4 PCS 3/4" (3) X 15" (OVERALL) X 4 3/8" (OVERALL)
- 76 PCS 7/8" (9) X 10" OA X 3" ANCHOR F1554 GR55


ANGEL TORRES
GENERAL MANAGER

SOLD HAYDON BOLTS INC
 TO: 1181 UNITY ST
 PHILADELPHIA, PA 19124-3196



CERTIFIED MILL TEST REPORT

Page: 1

SHIP HAYDON BOLTS
 TO: 1181 UNITY STREET
 PHILADELPHIA, PA 19124-0000

Ship from:
 Nucor Steel - Auburn
 25 Quarry Road
 Auburn, NY 13021
 315-253-4561

Date: 22-Sep-2010
 B.L. Number: 383206
 Load Number: 131715

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBMG-08 March 24, 2009

HEAT NUM. *	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS												
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn
PO# => AU0810702903	Z03221 Nucor Steel - Auburn Inc	65,700	86,800	22.1%			.22	.99		.019	.036	.20	.32	.41				
AU08107029D	7/8 Rd 22 F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 39	453MPa	598MPa				.11	.16		.032	.026 0	.00						
PO# => AU1010258601	Z04644 Nucor Steel - Auburn Inc	68,800	90,900	23.4%			.22	1.08		.018	.050	.24	.36	.42				
AU10102586	1-1/4" (1.2500) Round 22" F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 42	474MPa	627MPa				.09	.12		.009	.030	.002						
PO# => AU1010401201	Z05294 Nucor Steel - Auburn Inc	61,000	85,000	26.0%			.23	1.07		.015	.050	.18	.30	.43				
AU10104012	1" (1.0000) Round 22" F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 42	421MPa	586MPa				.08	.11		.008	.028	.001						

1007-1-1-2010

I HEREBY CERTIFY THAT THE ABOVE FIGURES ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION.

ALL MANUFACTURING PROCESSORS OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING
 MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELL FREE
 MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OF TESTING OF THIS MATERIAL.

QUALITY ASSURANCE: Jim Biernat

Title: STANDARD CMTR

Author: R.H.

Approved By: E. A.

NSV 29 2010



**Cleveland
City Forge**

46950 St. Route 18 West * Wellington, Ohio 44090

To: Haydon Bolt
1181 Unity Street
Philadelphia, PA 19124

Date: 11/23/2010
Cust. PO #: Z05998
CCF Job #: 131078
Spec.: A668 CLA

Certified Material Test Report

Galv

Item	Description	Mat'l	Mill	Heat No.	Heat Code	QTY	C	MN	P	S	Si	Tensile	Yield	Elong.	Red.	BH
CL30310-0419	# 3 Clevis	C1035	ASI	908224	L 4	3	.34	.65	.009	.022						
CL30310-0047	# 3 Clevis	C1035	ASI	908224	L 4	3	.34	.65	.009	.022						
PC1043-0011	1-1/4 X 4 Pins	C1035	ASI	908022	NA	6	.33	.70	.010	.025						

MATERIALS AND CERTIFICATIONS ARE IN ACCORDANCE WITH CCF'S QUALITY PROGRAM REV: D DATED APRIL, 2006.

WE CERTIFY THAT THE FIGURES ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION.

SIGNED

Rita Helman

QUALITY CONTROL

Form Control Number: 0019A

From: Perlow Steel Corporation
Part: HRC1.2501030

Date: 1/11/2010 To: cleveland
Qty: 0 Heat#: 908022

Ln#: 0



CERTIFIED MILL TEST REPORT

Alton Steel Test Lab
#5 Cut Street
Alton, IL 62002-9011
(618) 463-4490 EXT 2486
(618) 463-4491 (Fax)

BILL TO

Perlow Steel
2900 South 25th Avenue
Broadview, IL 60155

SHIP TO

Perlow Steel
2900 South 25th Avenue
Broadview, IL 60155

Date	09/18/2009	Customer PO	P9017-1	Specifications
ASI Ord No.	29930	Customer PT.		SAE 1030
ASI Ord Line Item	1			ASTM A 576-90b, ASTM A 29-05

Item Description Strand Cast, RR = 39.93:1
Steel Bar, Hot Rolled, 1.2500, 20' 0"

Heat Number	Yield PSI	Tensile PSI	% Elongation	% ROA	Bend Test
908022	58700	94900	20 in 2"	32	

CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1019

Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	Nb/Cb	V	B	Ti	N	Ca
908022	0.33	0.70	0.010	0.025	0.25	0.22	0.080	0.085	0.022	0.017	0.001	0.007	0.031	0.0002	0.0009	0.0095	0.0008

JOMINY HARDENABILITY USING ASTM A-255 CALCULATED FROM CHEMICAL DI

Heat Number	GS	DI
908022	7	1.03

SPECIAL TEST RESULTS

Heat Number	TA	TB	TC	TD	HA	HB	HC	HD	S	O	S	O	S	R	C	A	B	RC	RB	BHN
908022											2	2								176

ADDITIONAL COMMENTS

No mercury, lead, radium, or alpha containing material or equipment is used or deliberately added in the production of this steel. No weld or weld repairs were performed on this material. This Steel is 100% Electric Arc Furnace Melted and Rolled in the U.S.A. Material qualifies as NAFTA origination.

Alteration or reproduction of this report, except in full, is not allowed without written approval by a representative of Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained in the records of ALTON STEEL INCORPORATED

Subscribed and sworn to before me, a Notary Public, in and for the county of Madison, State of Illinois

Quality Leader: Rubert Cauley

this _____ Day of _____

My commission expires _____

(Notary Public)

R Cauley

Q. A. APPROVED

DATE: 1-13-2010

SIGNED: R. Helman

114 #

KREHER STEEL COMPANY, LLC.
KEN FORGING INC.

HOT ROLLED ROUNDS 1035
 1.3750 X 18/24"
 PART NO.

PO/Rel 300105

I hereby certify that this data is correct as
 contained in the records of this company.
 I hereby certify that no mercury came in contact

Certificate of Mill Test Results

SO 1 -190418-001

14Dec09

Pg 1/1

with or no weld repair was done to this product
 while in our possession.
 Attn:



CERTIFIED MILL TEST REPORT

Alton Steel Test Lab
 #5 Cut Street
 Alton, IL. 62002-9011
 (618) 463-4490 EXT 2486
 (618) 463-4491 (Fax)

BILL TO

Kreher Steel Company, LLC
 1550 North 25th Avenue
 Melrose Park, IL 60160

SHIP TO

Kreher Steel Company, LLC
 C/O Handi-It, Inc.
 12750 Kirby Road
 Cleveland, OH 44108

Date	11/20/2009	Customer PO	21074	Specifications	
ASI Ord No.	31541	Customer PT.		SAE 1035	
ASI Ord Line Item	1			ASTM A 376-90b, ASTM A 29-05	

Item Description: Steel Bar, Hot Rolled, 1.3750, 20' 0" Strand Cast, RR = 33.00:1

Heat Number	Yield PSI	Tensile PSI	% Elongation	% ROA	Band Test												
CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1019																	
Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	Nb/Cb	V	B	Ti	N	Ca
908224	0.34	0.65	0.009	0.022	0.26	0.22	0.092	0.096	0.031	0.013	0.002	0.008	0.028	0.0002	0.0013	0.0105	0.0018

JOMINY HARDENABILITY USING ASTM A-285 CALCULATED FROM CHEMICAL DI

Heat Number GS DI
 908224 B 1.10

SPECIAL TEST RESULTS

ADDITIONAL COMMENTS

No mercury, lead, radium, or alpha containing material or equipment is used or deliberately added in the production of this steel. No weld or weld repairs were performed on this material. This steel is 100% Electric Arc Furnace Melted and Rolled in the U.S.A. Material qualifies as NAFTA origination.

Subscribed and sworn to before me, a Notary Public, in and for the county of Madison, State of Illinois

this _____ Day of _____
 My commission expires _____

(Notary Public)

Alteration or reproduction of this report, except in full, is not allowed without written approval by a representative of Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained in the records of ALTON STEEL INCORPORATED

Quality Leader: Rubert Cauley

R Cauley

Q. A. APPROVED

DATE: 11-5-2010

SIGNED: R. Helman

3 Claves

(HC) L4

Title: STANDARD CMTR

Author: R.H.

Approved By: E. A.

NOV 29 2010

To: Haydon Bolt
1181 Unity Street
Philadelphia, PA 19124



**Cleveland
City Forge**

46950 St. Route 18 West * Wellington, Ohio 44090

Date: 11/23/2010
Cust. PO #: Z05998
CCF Job #: 131078
Spec.: A668 CLA

Certified Material Test Report

Galv

Item	Description	Mat'l	Mill	Heat No.	Heat Code	QTY	C	MN	P	S	Si	Tensile	Yield	Elong.	Red.	BH
CL30310-0419	# 3 Clevis	C1035	ASI	908224	L 4	3	.34	.65	.009	.022						
CL30310-0047	# 3 Clevis	C1035	ASI	908224	L 4	3	.34	.65	.009	.022						
PC1043-0011	1-1/4 X 4 Pins	C1035	ASI	908022	NA	6	.33	.70	.010	.025						

MATERIALS AND CERTIFICATIONS ARE IN ACCORDANCE WITH CCF'S QUALITY PROGRAM REV: D DATED APRIL, 2006.

WE CERTIFY THAT THE FIGURES ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION.

SIGNED *Rita Helman*

QUALITY CONTROL

Form Control Number: 0019A



CERTIFIED MILL TEST REPORT

Alton Steel Test Lab
#5 Cut Street
Alton, IL 62002-9011
(618) 463-4490 EXT 2486
(618) 463-4491 (Fax)

BILL TO

Perlow Steel
2900 South 25th Avenue
Broadview, IL 60155

SHIP TO

Perlow Steel
2900 South 25th Avenue
Broadview, IL 60155

Date	09/18/2009	Customer PO	P9017-1	Specifications
ASI Ord No.	29930	Customer PT.		SAE 1030
ASI Ord Line Item	1			ASTM A 576-90b, ASTM A 29-05

Item Description
Steel Bar, Hot Rolled, 1.2500, 20' 0" Strand Cast, RR = 39.93:1

Heat Number	Yield PSI	Tensile PSI	% Elongation	% ROA	Bend Test
908022	58700	94900	20 in 2"	32	

CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1019

Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	Nb/Cb	V	B	Ti	N	Ca
908022	0.33	0.70	0.010	0.025	0.25	0.22	0.080	0.085	0.022	0.017	0.001	0.007	0.031	0.0002	0.0009	0.0095	0.0008

JOMINY HARDENABILITY USING ASTM A-255 CALCULATED FROM CHEMICAL DI

Heat Number	GS	DI
908022	7	1.03

SPECIAL TEST RESULTS

Heat Number	TA	TB	TC	TD	HA	HB	HC	HD	S	O	S	O	S	R	C	A	B	RC	RB	BHN
908022											2	2								176

ADDITIONAL COMMENTS

No mercury, lead, radium, or alpha containing material or equipment is used or deliberately added in the production of this steel. No weld or weld repairs were performed on this material. This Steel is 100% Electric Arc Furnace Melted and Rolled in the U.S.A. Material qualifies as NAFTA origination.

Alteration or reproduction of this report, except in full, is not allowed without written approval by a representative of Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained in the records of ALTON STEEL INCORPORATED

Subscribed and sworn to before me, a Notary Public, in and for the county of Madison, State of Illinois

Quality Leader: Robert Cauley

this _____ Day of _____

My commission expires _____

(Notary Public)

R Cauley

Q. A. APPROVED

DATE: 1-13-2010

SIGNED: R. Helman

1/4 φ

KREHER STEEL COMPANY, LLC.
KEN FORGING INC.

HOT ROLLED ROUNDS 1035
 1.3750 X 18/24"
 PART NO.

PO/Rel 300105

I hereby certify that this data is correct as
 contained in the records of this company.
 I hereby certify that no mercury came in contact

Certificate of Mill Test Results

SO 1 -190418-001 14Dec09
 Pg 1/1

with or no weld repair was done to this product
 while in our possession.
 Attn:



CERTIFIED MILL TEST REPORT

Alton Steel Test Lab
 #5 Cut Street
 Alton, IL. 62002-9011
 (618) 463-4490 EXT 2486
 (618) 463-4491 (Fax)

BILL TO

Kreher Steel Company, LLC
 1550 North 25th Avenue
 Melrose Park, IL 60160

SHIP TO

Kreher Steel Company, LLC
 C/O Hand-It, Inc.
 12750 Kirby Road
 Cleveland, OH 44108

Date	11/20/2009	Customer PO	21074	Specifications	
ASI Ord No.	31541	Customer PT.		SAE 1035	
ASI Ord Line Item	1			ASTM A 576-90B, ASTM A 29-05	

Item Description: Steel Bar, Hot Rolled, 1.3750, 20' 0" Strand Cast, RR = 33.00:1

Heat Number	Yield PSI	Tensile PSI	% Elongation	% ROA	Bend Test
-------------	-----------	-------------	--------------	-------	-----------

CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1019

Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	Nb/Cb	V	B	Ti	N	Ca
908224	0.34	0.65	0.009	0.022	0.26	0.22	0.092	0.096	0.031	0.013	0.002	0.008	0.028	0.0002	0.0013	0.0105	0.0018

JOMINY HARDENABILITY USING ASTM A-265 CALCULATED FROM CHEMICAL DI

Heat Number GS DI
 908224 8 1.10

SPECIAL TEST RESULTS

ADDITIONAL COMMENTS

No mercury, lead, radium, or alpha containing material or
 equipment is used or deliberately added in the production of this
 steel. No weld or weld repairs were performed on this material.
 This Steel is 100% Electric Arc Furnace Melted and Rolled in the
 U.S.A. Material qualifies as NAFTA originator.

Alteration or reproduction of this report, except in full, is not
 allowed without written approval by a representative of
 Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained
 in the records of ALTON STEEL INCORPORATED

Subscribed and sworn to before me, a Notary Public, in and for
 the county of Madison, State of Illinois

Quality Leader: Rubert Cauley

this _____ Day of _____

R Cauley

My commission expires _____

(Notary Public)

Q. A. APPROVED

DATE: 11-5-2010

SIGNED: R. Helman

3 Clerks

(HC) L4

KEYSTONE - CALUMET, INC.

Post Office Box 726
Chicago Heights, Illinois 60411
(708) 753-1200

Sold To: AMERICAN EAGLE STEEL CO LLC
317 E 11TH ST
CHICAGO HEIGHTS IL 60411

Ship To: AMERICAN EAGLE STEEL CO., LLC
317 E. 11TH STREET
CHICAGO HEIGHTS, IL 60411

P.O. # 16370

Keystone-Calumet Resource #
KC10440
CUSTOMER PO:
1063
Keystone Order Number:
0510298

Grade:	F1554-55	Size:	0.75 X
Shape:	RD		

Chemical & Mechanical Properties Test Report

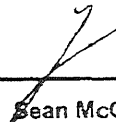
Shipping Date	2/12/2010
---------------	-----------

Heat #	C	Mn	P	S	SI	CU	NI	CR	MO	SN	B	N	AL	CA	V	Carbon Equivalent	Date Melted	Yield KSI *	Tensile KSI *	Elongation *	
49740c	0.22	1.07	0.008	0.02	0.25	0.25	0.07	0.08	0.02	0.009	0	0.008	0.003	0.002	0.04	0.420283333		65.3	87.9	21%	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.0	0.0	0%	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.0	0.0	0%	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.0	0.0	0%	0

Reduction Ratio:	57	: 1
------------------	----	-----

Society Specs:	ROA = 60%
Customer Specs:	
Comments:	

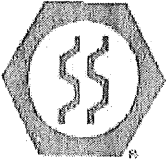
We hereby certify this material was manufactured and tested in accordance with the above specifications listed.
This steel was melted and continuously cast at Keystone Steel & Wire Co., Peoria, IL USA.
This steel was not exposed to mercury.


Sean McGinnis

* This section will only be completed when applicable.

Certification Number: 2696

Date and Time Printed 2/12/2010 8:55:40 AM



STELFAST[®] INC.

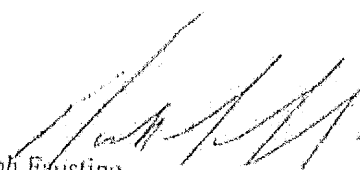
ISO 9002 / QS 9000 CERTIFIED

SALES OFFICE
901 - 13th Avenue
Prospect Park, PA 19076
Phone: (877) 999-7027
(610) 534-5624
Fax: (610) 534-5664

Certificate of Compliance

To Whom It May Concern:

We certify that the products shown in our catalog conform to IFT standards.


Ralph Faustino
Philadelphia Sales Manager

E-mail: info@stelfast.com • Website: www.stelfast.com

Atlanta • Cleveland • Dallas • Edmonton • Houston • Montreal • Toronto

OCT 29



COATESVILLE WASHER COMPANY

CERTIFICATE OF COMPLIANCE

TO: HAYDON BOLTS, INC.
1181 UNITY STREET
PHILADELPHIA, PA 19124

DATE: October 26, 2009

PART: WASHERS, STEEL, PLAIN(FLAT), UNHARDENED FOR GENERAL
USE.

SPEC.: ASTM F844 & ANSI B18.22.1

FINISH : PLAIN, ZINC & CLEAR DICHROMATE , HOT DIP GALV. &
MECH. GALV.

GENTLEMEN:

I HEREBY CERTIFY THAT THE ABOVE SUPPLIES CALLED FOR BY
PURCHASE ORDER/CONTRACT Z02103 WERE MANUFACTURED IN CHINA
USING MILD STEEL , IN ACCORDANCE WITH ALL APPLICABLE
SPECIFICATIONS, AND THAT SUCH SUPPLIES WERE IN THE QUANTITY
AND QUALITY CALLED FOR, AND WERE IN ALL RESPECTS IN
ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS. ALL
DIMENSIONAL INSPECTION REPORTS ARE ON FILE AND AVAILABLE FOR
REVIEW UPON REQUEST. CHEMICAL & PHYSICAL REPORTS ARE NOT
AVAILABLE SINCE THEY ARE OPTIONAL AND NOT REQUIRED BY THE
ABOVE REFERENCED SPECIFICATIONS.

COATESVILLE WASHER COMPANY

BY:


GENERAL MANAGER

SOLD HAYDON BOLTS INC
1181 UNITY ST
TO: PHILADELPHIA, PA 19124-3196

NUCOR

BAR MILL GROUP
NUCOR STEEL AUBURN, INC.

CERTIFIED MILL TEST REPORT

Ship from:
Nucor Steel - Auburn
25 Quarry Road
Auburn, NY 13021
315-253-4561

SHIP HAYDON BOLTS
1181 UNITY STREET
TO: PHILADELPHIA, PA 19124-0000

Date: 16-Dec-2009
B.L. Number: 371611
Load Number: 121096

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBMG-08 March 24, 2009

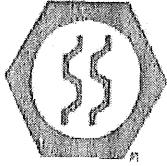
HEAT NUM. *	DESCRIPTION	PHYSICAL TESTS					CHEMICAL TESTS											
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn
PO# => AU0910319101	Z03221 Nucor Steel - Auburn Inc	66,200	87,900	19.8%			.22	.97	.015	.041	.18	.32	.40					
AU09103191C	3/4 Rd 22 F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 44	456MPa	606MPa				.10	.13	.021	.028	.006							
PO# => AU0910319103	Z03221 Nucor Steel - Auburn Inc	66,200	87,900	19.8%			.22	.97	.015	.041	.18	.32	.40					
AU09103191A	1" (1.0000) Round 22' F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 44	456MPa	606MPa				.10	.13	.021	.028	.006							
PO# => AU0910319201	Z03221 Nucor Steel - Auburn Inc	66,600	88,500	18.1%			.21	.98	.015	.043	.19	.30	.40					
AU09103192B	5/8 Rd 22 F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 48	459MPa	610MPa				.10	.13	.021	.028	.005							
PO# => AU0910319202	Z03221 Nucor Steel - Auburn Inc	63,500	86,000	20.6%			.21	.98	.015	.043	.19	.30	.40					
AU09103192A	3/4 Rd 22 F1554 GR 55 Conforms to ASTM F1554-07a Gr 55 , sect 8, 9.1 & S1.5.2.1 ROA% = 45	438MPa	593MPa				.10	.13	.021	.028	.005							

I HEREBY CERTIFY THAT THE ABOVE FIGURES ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

QUALITY
ASSURANCE: Jim Biernat

Jim Biernat



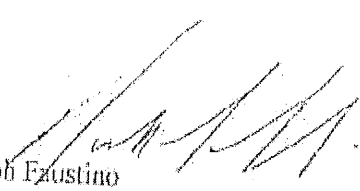
STELFAST[®] INC.
ISO 9002 / QS 9000 CERTIFIED

SALES OFFICE
901 - 13th Avenue
Prospect Park, PA 19076
Phone: (877) 999-7027
(610) 534-5624
Fax: (610) 534-5664

Certificate of Compliance

To Whom It May Concern:

We certify that the products shown in our catalog conform to IFI standards.


Ralph Ezustino
Philadelphia Sales Manager

E-mail: info@stelfast.com • Website: www.stelfast.com

Atlanta • Cleveland • Dallas • Edmonton • Houston • Montreal • Toronto

OCT 29



GOATESVILLE WASHER COMPANY

CERTIFICATE OF COMPLIANCE

TO: HAYDON BOLTS, INC.
1181 UNITY STREET
PHILADELPHIA, PA 19124

DATE: October 26, 2009

PART: WASHERS, STEEL, PLAIN(FLAT), UNHARDENED FOR GENERAL
USE.

SPEC.: ASTM F844 & ANSI B18.22.1

FINISH : PLAIN, ZINC & CLEAR DICHROMATE , HOT DIP GALV. &
MECH. GALV.

GENTLEMEN:

I HEREBY CERTIFY THAT THE ABOVE SUPPLIES CALLED FOR BY
PURCHASE ORDER/CONTRACT Z02103 WERE MANUFACTURED IN CHINA
USING MILD STEEL , IN ACCORDANCE WITH ALL APPLICABLE
SPECIFICATIONS, AND THAT SUCH SUPPLIES WERE IN THE QUANTITY
AND QUALITY CALLED FOR, AND WERE IN ALL RESPECTS IN
ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS. ALL
DIMENSIONAL INSPECTION REPORTS ARE ON FILE AND AVAILABLE FOR
REVIEW UPON REQUEST. CHEMICAL & PHYSICAL REPORTS ARE NOT
AVAILABLE SINCE THEY ARE OPTIONAL AND NOT REQUIRED BY THE
ABOVE REFERENCED SPECIFICATIONS.

COATESVILLE WASHER COMPANY

BY:


GENERAL MANAGER

Customer Name: JAMES A MCBRADY INC
 Customer PO#: 16817
 Invoice No: 81477
 Shipper No: 74058
 Heat Number: T05032

Atlas ABC Corp (Atlas Tube Chicago)
 1855 East 122nd Street
 Chicago, Illinois, USA
 60633
 Tel: 773-646-4500
 Fax: 773-646-6128



Ref.B/L: 80409605
 Date: 12.06.2010
 Customer: 81

P.O. # 16817

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
 8 Pent Highway
 WALLINGFORD CT 06492
 USA

Shipped to

Infra-Metals Corporation
 8 Pent Highway
 WALLINGFORD CT 06492
 USA

Material: 6.0x6.0x500x45"0(3x1).

Material No: 60060500

Made in: USA

Melted in: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
N4437	0.170	0.620	0.010	0.011	0.020	0.027	0.170	0.003	0.020	0.090	0.070	0.001	0.001	0.000	0.007

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.31
M800220588	3	055140 Psi	070630 Psi	37 %	ASTM A500-07 GRADE B&C	

Material Note:
 Sales Or.Note:

Material: 6.0x6.0x500x45"0(3x1).

Material No: 60060500

Made in: USA

Melted in: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
N4437	0.170	0.620	0.010	0.011	0.020	0.027	0.170	0.003	0.020	0.090	0.070	0.001	0.001	0.000	0.007

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.31
M800220587	3	055140 Psi	070630 Psi	37 %	ASTM A500-07 GRADE B&C	

Material Note:
 Sales Or.Note:

Material: 8.0x3.0x250x48"0(1x3).

Material No: 80030250

Made in: USA

Melted in: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
T05032	0.180	0.820	0.013	0.008	0.019	0.050	0.020	0.003	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.33
M800221483	3	056330 Psi	077600 Psi	33 %	ASTM A500-07 GRADE B&C	

Material Note:
 Sales Or.Note:

Authorized by Quality Assurance:

The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.



Customer Name
JAMES A MCBRADY INC

Customer PO#
16817

Invoice No
81477

Shipper No
74058

Heat Number
T05032

Atlas ABC Corp (Atlas Tube Chicago)
1855 East 122nd Street
Chicago, Illinois, USA
60633
Tel: 773-646-4500
Fax: 773-646-6128



Ref.B/L: 80409605
Date: 12.06.2010
Customer: 81

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 8.0x3.0x250x50"0(1x3).

Material No: 80030250

Made In: USA
Melted In: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
T05032	0.180	0.820	0.013	0.008	0.019	0.050	0.020	0.003	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.33
M800221482	3	056330 Psi	077600 Psi	33 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x3.0x250x50"0(2x3).

Material No: 80030250

Made In: USA
Melted In: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
T05032	0.180	0.820	0.013	0.008	0.019	0.050	0.020	0.003	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.33
M800221481	6	056330 Psi	077600 Psi	33 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x3.0x250x45"0(2x2).

Material No: 80030250

Made In: USA
Melted In: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
M07374	0.200	0.760	0.021	0.009	0.018	0.039	0.030	0.003	0.004	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.34
M800221490	4	054350 Psi	076350 Psi	31 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Authorized by Quality Assurance:

The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.



Customer Name	Customer PO#	Invoice No	Shipper No	Heat Number
JAMES A MCBRADY INC	16817	81477	74058	M07374

Atlas ABC Corp (Atlas Tube Chicago)
 1855 East 122nd Street
 Chicago, Illinois, USA
 60633
 Tel: 773-646-4500
 Fax: 773-646-6128



Ref.B/L: 80409605
 Date: 12.06.2010
 Customer: 81

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
 8 Pent Highway
 WALLINGFORD CT 06492
 USA

Shipped to

Infra-Metals Corporation
 8 Pent Highway
 WALLINGFORD CT 06492
 USA

Material: 8.0x3.0x250x50"0(1x3) Material No: 80030250 Made In: USA
 Melted In: USA
 Sales order: 598577 Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
T05032	0.180	0.820	0.013	0.008	0.019	0.050	0.020	0.003	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No PCs Yield Tensile Eln.2In Certification CE: 0.33
 M800221482 3 056330 Psi 077600 Psi 33 % ASTM A500-07 GRADE B&C

Material Note:
 Sales Or.Note:

Material: 8.0x3.0x250x50"0(2x3) Material No: 80030250 Made In: USA
 Melted In: USA
 Sales order: 598577 Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
T05032	0.180	0.820	0.013	0.008	0.019	0.050	0.020	0.003	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No PCs Yield Tensile Eln.2In Certification CE: 0.33
 M800221481 6 056330 Psi 077600 Psi 33 % ASTM A500-07 GRADE B&C

Material Note:
 Sales Or.Note:

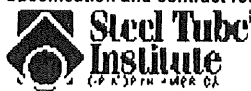
Material: 8.0x3.0x250x45"0(2x2) Material No: 80030250 Made In: USA
 Melted In: USA
 Sales order: 598577 Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	SI	Al	Cu	Cb	Mo	NI	Cr	V	TI	B	N
M07374	0.200	0.760	0.021	0.009	0.018	0.039	0.030	0.003	0.004	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No PCs Yield Tensile Eln.2In Certification CE: 0.34
 M800221490 4 054350 Psi 076350 Psi 31 % ASTM A500-07 GRADE B&C

Material Note:
 Sales Or.Note:

Authorized by Quality Assurance: *[Signature]*
 The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.



D1.1 method.



Customer Name: JAMES A MCBRADY INC Customer PO#: 16817 Invoice No: 81477 Shipper No: 74058 Heat Number: M07374

Atlas ABC Corp (Atlas Tube Chicago)
1855 East 122nd Street
Chicago, Illinois, USA
60633
Tel: 773-646-4500
Fax: 773-646-6128



Ref.B/L: 80409797
Date: 12.07.2010
Customer: 81

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 7.0x7.0x500x24"0"0(2x1). Material No: 70070500 Made in: USA
Sales order: 598577 Purchase Order: NE-27470 deal Melted In: USA

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
N4150	0.176	0.652	0.009	0.013	0.019	0.025	0.160	0.001	0.022	0.089	0.076	0.000	0.001	0.000	0.006

Bundle No: M800222209 PCs: 2 Yield: 059500 Psi Tensile: 075980 Psi Eln.2in: 34 % Certification: ASTM A500-07 GRADE B&C CE: 0.32

Material Note:
Sales Or.Note:

Material: 8.0x3.0x250x40"0"0(1x3). Material No: 80030250 Made in: USA
Sales order: 598577 Purchase Order: NE-27470 deal Melted in: USA

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
M07374	0.200	0.760	0.021	0.009	0.018	0.039	0.030	0.003	0.004	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No: M800221544 PCs: 3 Yield: 054350 Psi Tensile: 076350 Psi Eln.2in: 31 % Certification: ASTM A500-07 GRADE B&C CE: 0.34

Material Note:
Sales Or.Note:

Material: 8.0x6.0x250x40"0"0(2x2). Material No: 80060250 Made in: USA
Sales order: 598577 Purchase Order: NE-27470 deal Melted in: USA

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
M07258	0.210	0.840	0.011	0.007	0.009	0.058	0.030	0.004	0.002	0.010	0.030	0.001	0.001	0.000	0.000

Bundle No: M800221691 PCs: 4 Yield: 058620 Psi Tensile: 081490 Psi Eln.2in: 33 % Certification: ASTM A500-07 GRADE B&C CE: 0.36

Material Note:
Sales Or.Note:

M. White

Authorized by Quality Assurance:
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.
Certification used is the AWS D1.1 method.



Customer Name
JAMES A MCBRADY INC

Customer PO#
16817

Invoice No
81478

Shipper No
74075

Heat Number
M06769

Atlas ABC Corp (Atlas Tube Chicago)
1855 East 122nd Street
Chicago, Illinois, USA
60633
Tel: 773-646-4500
Fax: 773-646-6128



Ref.B/L: 80408499
Date: 11.30.2010
Customer: 81

P.O. # 16817

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 8.0x2.0x375x40"0"(2x3).

Material No: 800203754000

Made in: USA
Melted in: USA

Sales order: 596062

Purchase Order: NE-26955

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
M06942	0.200	0.800	0.017	0.009	0.019	0.054	0.030	0.006	0.000	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.35
M800217348	5	071150 Psi	076650 Psi	36 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x3.0x500x40"0"(2x3).

Material No: 800305004000

Made in: USA
Melted in: USA

Sales order: 500144

Purchase Order: NE-28176 MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
M06789	0.200	0.820	0.017	0.006	0.022	0.053	0.030	0.004	0.004	0.010	0.050	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.35
M800212561	5	077150 Psi	086650 Psi	36 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.625x250x42"0"(7x1).

Material No: R086252504200

Made in: USA
Melted in: USA

Sales order: 599411

Purchase Order: NE-27962

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
D03246	0.190	0.800	0.015	0.010	0.010	0.059	0.030	0.004	0.003	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2in	Certification	CE: 0.34
M800218383	7	057700 Psi	078600 Psi	36 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Authorized by Quality Assurance: *[Signature]*
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.



Customer Name
JAMES A MCBRADY INC

Customer PO#
16817

Invoice No
81478

Shipper No
74075

Heat Number
M06769

Atlas ABC Corp (Atlas Tube Chicago)
1855 East 122nd Street
Chicago, Illinois, USA
60633
Tel: 773-646-4500
Fax: 773-646-6128



Ref.B/L: 80409605
Date: 12.06.2010
Customer: 81

MATERIAL TEST REPORT

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 6.0x6.0x250x30"0(3x3).

Material No: 600602503000

Made In: USA

Melted In: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
Y09102	0.200	0.830	0.012	0.008	0.016	0.056	0.030	0.004	0.002	0.010	0.030	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2ln	Certification	CE: 0.35
M800220959	9	060980 Psi	083680 Psi	34 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x3.0x375x48"0(2x2).

Material No: 800303754800

Made In: USA

Melted In: USA

Sales order: 598577

Purchase Order: NE-27470 deal

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
W06635	0.200	0.790	0.014	0.006	0.018	0.046	0.030	0.003	0.002	0.010	0.040	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2ln	Certification	CE: 0.35
M800221435	4	058100 Psi	078790 Psi	37 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x3.0x500x48"0(2x2).

Material No: 800305004800

Made In: USA

Melted In: USA

Sales order: 600144

Purchase Order: NE-28176 MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
M06769	0.200	0.820	0.017	0.006	0.022	0.053	0.030	0.004	0.004	0.010	0.050	0.001	0.001	0.000	0.000

Bundle No	PCs	Yield	Tensile	Eln.2ln	Certification	CE: 0.35
M800212565	4	077160 Psi	080660 Psi	36 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Authorized by Quality Assurance:

The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.

D1.1 method.



Heat Number
G102658

Shipper No
76444

Invoice No
78811

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

ID: #1581273

Name: Mill Sales, Tampa, FL Ph: 1-800-237-0230

08/30/2010 Wed 17:34



CARTERSVILLE STEEL MILL
384 OLD GRASSDALE RD NE
CARTERSVILLE GA 30121 USA
(770) 387-3300

Chemical and Physical Test Report
Made and Melted in USA

G-158032

SHIP TO INFRA METAL-PREUSSAG INTN'L 8 PENT HIGHWAY 203-294-2980 APPT/JOE COSTELLO WALLINGFORD, CT 06492	INVOICE TO INFRA METALS CT ATTN: Accounts Payable 8 PENT HIGHWAY WALLINGFORD, CT 06492	SHIP DATE 06/30/10 CUST. ACCOUNT NO 50042985
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PRODUCED IN: CARTERSVILLE

SHAPE + SIZE - 35	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER															
W10 X 22#	A57250/992	ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A	0075055-51	NE-19092CF-51															
HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eqv
G102658	.07	1.13	.014	.020	.26	.28	.09	.04	.018	.025	.001	.0002	.0097	.008	.001	.00200	.00100	.00180	.341

Mechanical Test Yield 56900 PSI, 392.31 MPA Tensile: 73600 PSI, 507.45 MPA %E: 23.8/8in, 23.8/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test Yield 57400 PSI, 395.76 MPA Tensile: 73300 PSI, 505.39 MPA %E: 25.4/8in, 25.4/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

PRODUCED IN: CARTERSVILLE

SHAPE + SIZE - 35	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER															
W10 X 19#	A57250/992	ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A	0075055-48	NE-19092CF-48															
HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eqv
G102674	.08	1.08	.011	.019	.27	.27	.09	.04	.020	.025	.000	.0001	.0103	.009	.000	.00100	.00050	.00160	.351

Mechanical Test Yield 59700 PSI, 411.62 MPA Tensile: 75800 PSI, 522.62 MPA %E: 23.6/8in, 23.6/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test Yield 58400 PSI, 402.65 MPA Tensile: 74500 PSI, 513.66 MPA %E: 24.1/8in, 24.1/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

Customer Notes

NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
All manufacturing processes including melt and cast, occurred in USA. MTR complies with EN10204 3.1B


Maskary
Bhaskar Yalamanchili
Quality Director
Gerdau Ameristeel

THE ABOVE FIGURES ARE CERTIFIED EXTRACTS FROM THE ORIGINAL CHEMICAL AND PHYSICAL TEST RECORDS AS CONTAINED IN THE PERMANENT RECORDS OF COMPANY.

Zanilay
Metallurgical Services Manager
CARTERSVILLE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller. Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect the material in question.

<u>Customer Name</u>	<u>Customer PO#</u>	<u>Invoice No</u>	<u>Shipper No</u>	<u>Heat Number</u>
JAMES A MCBRADY INC	16824	78811	76444	30496150

Bill To:	Ship To: 1	Order Date:05/19/2010	CERTIFIED MATERIAL TEST REPORT
INFRA METALS	CT INFRA-METALS CORPORATION-CT	PO No:NE-19324CF	GERDAU AMERISTEEL
ATTN: Accounts Payable	8 PENT HIGHWAY	Mill Order No:3737206	Petersburg Mill
8 PENT HIGHWAY	TRACK# 953	Load No:1315834	 GERDAU AMERISTEEL 25801 Hofheimer Way
WALLINGFORD	CT WALLINGFORD	Manifest No:2015899	Petersburg, VA 23803
06492	US 06492		(804)524-2855

SPECIFICATIONS	SIZE	GRADE	LENGTH	PRODUCT
	W 16 X 31# / W410 X 46.1	992/572-50	30 FT / 9.144 M	WF BEAMS

ASTM A6-05a, A992-06a, A572-06

HEAT NO: 30496150

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.09	.90	.013	.030	.21	.32	.10	.09	.017	.011	.002	.003	.007	.29

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>	<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%
53.1	366.1	67.5	465.4	0.410	2.65	30.6	8 In 200 mm		
56.9	392.3	69.1	476.4	0.413	2.66	25.0	8 In 200 mm		

TENSILE TEST RATIOS

<u>YLD/TENS</u>	<u>TENS/YLD</u>	<u>TENS/YLD</u>	<u>TENS/YLD</u>
.79	1.27	.82	1.22

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A. CYTR complies with EN 10204 3.1

"I hereby certify that the contents of this report are correct and accurate. All tests and operations performed by this material manufacturer or its sub-contractors, when applicable, are in compliance with the requirements of the material specifications and applicable purchaser designated requirements."

Signed: Tom L. Harrington Date: Jul. 13, 2010 Signed: _____ Date: _____
 Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

Customer Name
JAMES A MCBRADY INC

Customer PO#
16824

Invoice No
78811

Shipper No
76444

Heat Number
2004316

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

7/30/10 17:25:06

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CT
8 PENT HIGHWAY

Ship To: INFRA METALS CORP - CT
8 PENT HIGHWAY

Customer #: 502 - 1
Customer PO: NE-20942FF
B.o.L. #: 829297

WALLINGFORD, CT 06492

WALLINGFORD, CT 06492

SPECIFICATIONS: Tested in accordance with ASIM specification A6/A6M and A370, Quality Manual Rev #22.
AASHTO : M270-50-05
ASTM : A992-06a/A36-08/A529-05-50/A572-07-50/A709-345M/A70909a0S

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield Tensile		Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
			(PSI)	(PSI)		Cr	Mo	Sn	B	V	Nb	CI	CE2
			(MPa)	(MPa)		XXXXXX	XXXXXX	XXXXXX	XXXXXX	N	XXXXXX	CI	Pcm
C08X13.75	2004316	.81	59100	72800	27.23	.07	.85	.007	.026	.21	.18	.05	.24
850' 06.00'	A992-06a		407	502		.03	.01	.0087	.0006	.002	.027		.2839
C200X20.5		.82	60000	72900	25.44					.0056		4.31	.1396
015.2400m			414	503		36 Piece(s)						Inv#:	0

13 Heat(s) for this MTR.

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed.

CI = $26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.28P - (7.29Cu \times Ni) - (9.10Ni \times P) - 33.39(Cu \times Cu)$

Pcm = $C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$

CE1 = $C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$

CE2 = $C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

Customer Name

JAMES A MCBRADY INC

Customer PO#

16824

Invoice No

78811

Shipper No

76444

Heat Number

2005785

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

8/19/10 5:57:18

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and
rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CT
8 PENT HIGHWAY

Ship To: INFRA METALS CORP - CT
8 PENT HIGHWAY

Customer #: 502 - 1
Customer PO: NE-21049FF
B.o.L. #: 832851

WALLINGFORD, CT 06492

WALLINGFORD, CT 06492

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #22.

AASHTO : M270-50-05

ASTM : A992-06a;A36-08/A529-05-50/A572-07-50/A709-345M/A70909a0S

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr XXXXXX	Mo XXXXXX	Sn XXXXXX	B XXXXXX	V N	Nb XXXXXX	CI XXXXXX	CE2 Pcm
W12x14 060' 00.00' W310X21.0 018.2880m	2005785 A992-06a	.82	56800 392	69600 480	27.06	.06 .03	.82 .01	.006 .0087	.029 .0004	.15 .002	.20 .013	.05 4.43	.23 .2595 .1288
		.80	55100 380	68700 474	26.84	14 Piece(s)						Inv#:	0
W12x14 060' 00.00' W310X21.0 018.2880m	2005787 A992-06a	.81	54700 377	67700 467	27.38	.06 .03	.83 .00	.006 .0074	.030 .0004	.17 .003	.18 .014	.05 4.13	.23 .2635 .1289
		.81	55100 380	68000 469	28.56	10 Piece(s)						Inv#:	0
W12x16 045' 00.00' W310X23.8 013.7160m	1009682 A992-06a	.81	53600 370	66000 455	26.98	.06 .03	.80 .00	.008 .0070	.026 .0005	.24 .002	.13 .015	.03 3.49	.21 .2639 .1261
		.81	52800 364	65300 450	26.96	16 Piece(s)						Inv#:	0
W12x16 045' 00.00' W310X23.8 013.7160m	2009685 A992-06a	.82	54200 374	66000 455	28.13	.06 .04	.79 .01	.010 .0082	.027 .0004	.20 .002	.17 .016	.04 4.15	.22 .2617 .1274
		.82	54200 374	66400 458	28.00	8 Piece(s)						Inv#:	0

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 $CT = 26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.28P - (7.29Cu \times Ni) - (9.10Ni \times P) - 33.39(Cu \times Cu)$ $CE1 = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$ $CE2 = C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me

_____ day of _____

Customer Name
JAMES A MCBRADY INC

Customer PO#
16824

Invoice No
78811

Shipper No
76444

Heat Number
2010325

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/09/10 18:07:37

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice. Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CT
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Ship To: INFRA METALS CORP - CT
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Customer #: 502 - 1
B.o.L. H...: 837046

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370, Quality Manual Rev #22.
NASHIO : M270-50-05
ASTM : A992-06a/A36-08/A529-05-50/A572-07-50/A709-345M/A70909a05

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr XXXXXX	Mo XXXXXX	Sn XXXXXX	B XXXXXX	V N	Nb XXXXXX	CI	CE2 Pcm
W8X28 055' 00.00' W200X41.7 016.7640m	2010552 A992-06a	.79	56100 387	71100 490	24.46	.07 .05	1.00 .00	.010 .0075	.033 .0003	.29 .003	.15 .027	.04	.28 .3348 .1509
						6 Piece(s)		Customer PO: NE-21843FF				Inv#:	0
W8X31 055' 00.00' W200X46.1 016.7640m	2010325 A992-06a	.81	58000 400	71600 494	22.14	.07 .05	1.06 .00	.009 .0075	.023 .0003	.29 .003	.15 .028	.04	.27 .3304 .1485
						6 Piece(s)		Customer PO: NE-21843FF				Inv#:	0
W8X35 050' 00.00' W200X52 015.2400m	2007036 A992-06a	.81	56300 388	69400 479	22.93	.06 .03	1.09 .01	.008 .0093	.026 .0006	.29 .003	.21 .029	.05	.27 .3309 .1477
						6 Piece(s)		Customer PO: NE-22368FF				Inv#:	0

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed.
CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Ni)-(9.10Ni*P)-33.39(Cu*Cu)
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B

$$CE1 = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$$

$$CE2 = C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

Customer Name
JAMES A MCBRADY INC

Customer PO#
16824

Invoice No
78811

Shipper No
76444

Heat Number
2009750

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/09/10 18:07:07

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CT
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Ship To: INFRA METALS CORP - CT
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Customer #: 502 - 1
B.o.L. #: 837045

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370, Quality Manual Rev #22.
AASHTO : M270-50-05
ASTM : A992-06a:A36-08/A529-05-50/A572-07-50/A709-345M/A70909a0S

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1	
						Cr	Mo	Sn	B	V	Nb	CI	CE2	
W10x12 035' 00.00' W250X17.9 010.6680m	2009750 A992-06a	.02	56100 387	68500 472	26.13	.07 .03	.83 .00	.009 .0090	.025 .0004	.22 .002	.22 .014	.05 4.00	.23 .2784 .1367	
						22 Piece(s) Customer PO: NE-22368FF						Inv#:		0
W10x12 035' 00.00' W250X17.9 010.6680m	2009748 A992-06a	.02	58200 401	70700 487	27.51	.06 .03	.81 .00	.008 .0091	.025 .0005	.24 .002	.21 .015	.05 4.73	.22 .2728 .1321	
						2 Piece(s) Customer PO: NE-22368FF						Inv#:		0
W10x12 040' 00.00' W250X17.9 012.1920m	2009769 A992-06a	.03	57100 394	69200 477	26.41	.06 .05	.86 .00	.010 .0085	.022 .0004	.20 .002	.20 .014	.04 4.54	.24 .2764 .1336	
						31 Piece(s) Customer PO: NE-22368FF						Inv#:		0
W10x12 040' 00.00' W250X17.9 012.1920m	2009771 A992-06a	.02	57300 395	69500 479	27.13	.06 .04	.83 .00	.011 .0082	.026 .0004	.17 .002	.18 .013	.04 4.32	.23 .2671 .1319	
						1 Piece(s) Customer PO: NE-22368FF						Inv#:		0

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 $CI = 26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.28P - (7.29Cu + Ni) - (9.10W + P) - 33.39(Cu + Cu)$ $CE1 = C + (Mn/6) + ((Cr + Mo + V)/5) + ((Ni + Cu)/15)$
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$ $CE2 = C + ((Mn + Si)/6) + ((Cr + Mo + V + Nb)/5) + ((Ni + Cu)/15)$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me

_____ day of _____

Heat Number
2012546

Shipper No
76444

Invoice No
78811

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

10/28/10 17:52:43

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Ship To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Customer #: 502 - 1
B.o.I. #: 845679

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370, Quality Manual Rev #23.
ARSHD : M270-50-05
ASTM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 09a50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr *****	Mo Ti	Sn *****	B *****	N V	Nb *****	CI *****	CE2 Pcm
W10x12 030' 00.00' W250X17.9 009.1440m	1006276 A992-06A	.83	59400 410	71600 494	27.86	.06 .02	.83 .00	.010 .0058	.017 .0004	.18 .002	.07 .017	.02	.21 .2519 .1219
						24 Piece(s) Customer PO: NE-22225FF Inv#: 0							
W10x12 040' 00.00' W250X17.9 012.1920m	1012065 A992-06A	.82	55400 382	67600 466	28.41	.06 .04	.81 .00	.011 .0078	.027 .0002	.22 .003	.20 .014	.05	.23 .2719 .1311
						32 Piece(s) Customer PO: NE-22413FF Inv#: 0							
W10x12 045' 00.00' W250X17.9 013.7160m	2012546 A992-06A	.82	56500 390	68900 475	25.98	.07 .06	.83 .00	.013 .0070	.022 .0002	.20 .004	.16 .015	.04	.24 .2775 .1349
						8 Piece(s) Customer PO: NE-24885FF Inv#: 0							
W10x12 050' 00.00' W250X17.9 015.2400m	1012600 A992-06A	.83	56700 391	68600 473	28.31	.06 .03	.84 .01	.008 .0089	.023 .0002	.23 .002	.23 .014	.06	.23 .2781 .1315
						6 Piece(s) Customer PO: NE-24885FF Inv#: 0							

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Ni)-(9.10Ni*P)-33.39(Cu*Cu) CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me

_____ day of _____

Customer Name JAMES A MCBRADY INC
 Customer PO# 16824
 Invoice No 78811
 Shipper No 76444
 Heat Number G106182

ID: 81721662 Page 10 of 13

Name: Mill Sales, Tampa, FL Ph: 1-800-237-0220

11/01/2010 Mon 08:23



CARTERSVILLE STEEL MILL
 384 OLD GRASSDALE RD NE
 CARTERSVILLE GA 30121 USA
 (770) 387-3300

Chemical and Physical Test Report
 Made and Melted in USA

G-163215

SHIP TO INFRA METAL-PREUSSAG INT'L 8 PENT HIGHWAY 203-294-2980 APPT/JOE COSTELLO WALLINGFORD, CT 06482	INVOICE TO INFRA METALS CT ATTN: Accounts Payable 8 PENT HIGHWAY WALLINGFORD, CT 06492	SHIP DATE 11/01/10 CUST. ACCOUNT NO 50042985
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PRODUCED IN: CARTERSVILLE

SHAPE + SIZE	GRADE		SPECIFICATION																	SALES ORDER	CUST P.O. NUMBER				
W12 X 14# 45	A57250/992		ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A																	0116066-05	NE-24477-05				
HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eq						
G106182	.09	.95	.014	.020	.28	.28	.09	.10	.020	.027	.002	.0003	.0086	.010	.002	.00200	.00230	.00290	.34						

Mechanical Test Yield 58600 PSI, 404.03 MPA Tensile: 71300 PSI, 491.6 MPA %E: 26.4/8in, 26.4/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test Yield 58600 PSI, 390.24 MPA Tensile: 70600 PSI, 486.77 MPA %E: 25.6/8in, 25.6/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

PRODUCED IN: CARTERSVILLE

SHAPE + SIZE	GRADE		SPECIFICATION																	SALES ORDER	CUST P.O. NUMBER				
W12 X 14# 35	A57250/992		ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A																	0116066-03	NE-24477-03				
HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eq						
G106183	.09	.95	.014	.020	.28	.28	.09	.10	.020	.027	.002	.0003	.0086	.010	.002	.00200	.00230	.00290	.34						

Mechanical Test Yield 58600 PSI, 404.03 MPA Tensile: 71300 PSI, 491.6 MPA %E: 26.4/8in, 26.4/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test Yield 58600 PSI, 390.24 MPA Tensile: 70600 PSI, 486.77 MPA %E: 25.6/8in, 25.6/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

Customer Notes

NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 All manufacturing processes including melt and cast, occurred in USA. MTR complies with EN10204 3.1B

Maskar
 Bhaskar Yamanchilli
 Quality Director
 Gerdau Ameristeel

THE ABOVE FIGURES ARE CERTIFIED EXTRACTS FROM THE ORIGINAL CHEMICAL AND PHYSICAL TEST RECORDS AS CONTAINED IN THE PERMANENT RECORDS OF COMPANY.

Zanilay
 Metallurgical Services Manager
 CARTERSVILLE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER, AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller. Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect the material in question.

Heat Number
2010308

Shipper No
76444

Invoice No
78811

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

11/07/10 5:14:40

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and
rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENT HIGHWAY

Ship To: INFRA METALS CORP - CI
8 PENT HIGHWAY

Customer #.: 502 - 1

WALLINGFORD, CI 06492

WALLINGFORD, CI 06492

B.o.L. #...: 846882

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #23.
AASHTO : M270-50-05
ASTM : A992-06A/A36-08/A529-05-50/A572-07-50/A709 09a50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1 CE2 Pcm
W8X10 060' 00.00' W200X15.0 018.2880m	1012695 A992-06A	.82	57100 394	69600 480	26.91	.07 .03	.81 .01	.007 .0119	.022 .0002	.19 .003	.18 .015	.05	.23 .2695 .1322 0
						24 Piece(s) Customer PO: NE-24346FF Inv#:							
W8X31 030' 00.00' W200X46.1 009.1440m	2010308 A992-06A	.81	59400 410	72900 503	22.39	.06 .04	1.05 .00	.009 .0082	.028 .0003	.29 .003	.18 .029	.05	.27 .3272 .1466 0
						6 Piece(s) Customer PO: NE-21843FF Inv#:							
W8X35 030' 00.00' W200X52 009.1440m	1010286 A992-06A	.79	55000 379	69200 477	23.19	.07 .02	1.01 .00	.008 .0065	.020 .0003	.25 .004	.12 .031	.03	.25 .3072 .1401 0
						6 Piece(s) Customer PO: NE-24346FF Inv#:							
W8X35 050' 00.00' W200X52 015.2400m	2012952 A992-06A	.81	56900 392	70500 486	24.41	.07 .03	1.05 .01	.009 .0078	.027 .0002	.26 .003	.18 .029	.05	.27 .3247 .1473 0
						6 Piece(s) Customer PO: NE-21843FF Inv#:							

=====
Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
CI = 26.01Cu+3.89Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Ni)-(9.10Ni*P)-33.39(Cu*Cu) CE1= C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)
=====

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me

_____ day of _____

Heat Number
2010247

Shipper No
76444

Invoice No
78811

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

11/07/10 5:14:40

100% MELIED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.

Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENT HIGHWAY

Ship To: INFRA METALS CORP - CI
8 PENT HIGHWAY

Customer #: 502 - 1

WALLINGFORD, CT 06492

WALLINGFORD, CT 06492

B.O.L. #: 846882

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #23.
AASBIO : M270-50-05
ASTM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 09a50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1 CE2 Pcm
W8X40 030' 00.00' W200X59 009.1440m	2010247 A992-06A	.80	56700 391 492	71300 492	23.86	.06 .04	1.10 .00	.008 .0083	.024 .0004	.26 .003	.18 .034	.04	.27 .3301 .1475
						6 Piece(s) Customer PO: NE-21843FF Inv#: 0							
W8X40 035' 00.00' W200X59 010.6680m	2012919 A992-06A	.80	57000 393 493	71500 493	21.78	.06 .03	1.09 .01	.008 .0089	.029 .0002	.23 .004	.20 .032	.05	.27 .3214 .1432
						3 Piece(s) Customer PO: NE-21843FF Inv#: 0							
W8X40 035' 00.00' W200X59 010.6680m	2012920 A992-06A	.81	57500 396 490	71000 490	21.91	.06 .04	1.13 .01	.009 .0080	.024 .0003	.21 .004	.20 .031	.06	.28 .3264 .1451
						1 Piece(s) Customer PO: NE-21843FF Inv#: 0							
W8X40 035' 00.00' W200X59 010.6680m	2012921 A992-06A	.80	56700 391 491	71200 491	22.53	.06 .03	1.12 .01	.009 .0085	.024 .0003	.25 .004	.20 .033	.05	.28 .3333 .1485
						2 Piece(s) Customer PO: NE-21843FF Inv#: 0							

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) CE1= C+((Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15))
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me

_____ day of _____

Customer Name: JAMES A MCBRADY INC
 Customer PO#: 16824
 Invoice No: 78811
 Shipper No: 76444
 Heat Number: 2012914

NUCOR STEEL - BERKELEY
 P.O. Box 2259
 Mt. Pleasant, S.C. 29464
 Phone: (843) 336-5000

CERTIFIED MILL TEST REPORT

11/07/10 5:14:40

100% MELTED AND MANUFACTURED IN THE USA
 All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.

Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CT
 8 PENT HIGHWAY

Ship To: INFRA METALS CORP - CT
 8 PENT HIGHWAY

Customer #.: 502 - 1

WALLINGFORD, CT 06492

WALLINGFORD, CT 06492

B.o.L. #...: 846882

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #23.
 AASHTO : M270-50-05
 ASTM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 09a50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1 CE2 Pcm
W8x48 040' 00.00'	2010239 A992-06A	.78	53500	68900	24.39	.06	1.01	.008	.024	.26	.18	.04	.26
W200x71 012.1920m		.77	53200	69000	24.41	.04	.00	.0081	.0004	.002	.029	4.34	.3135 .1422
						4 Piece(s)		Customer PO: NE-21843FF				Inv#:	0
W8x48 040' 00.00'	2012915 A992-06A	.78	54600	70400	22.56	.06	1.11	.012	.024	.23	.21	.05	.28
W200x71 012.1920m		.78	55100	70700	21.85	.03	.01	.0101	.0002	.004	.031	4.77	.3289 .1479
						4 Piece(s)		Customer PO: NE-21843FF				Inv#:	0
W8x48 055' 00.00'	2012914 A992-06A	.76	53500	70400	21.15	.07	1.03	.010	.022	.24	.19	.05	.26
W200x71 016.7640m		.76	53800	70700	22.74	.02	.01	.0098	.0002	.004	.030	4.48	.3161 .1458
						4 Piece(s)		Customer PO: NE-24885FF				Inv#:	0

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed.
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Si)-(9.10Ni*P)-33.39(Cu*Cu)
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B

CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
 Metallurgist

Customer Name: JAMES A MCBRADY INC
 Customer PO#: 16824
 Invoice No: 78811
 Shipper No: 76444
 Heat Number: G106314

11/11/2010 Thu 06:16
 Name: Mill Sales, Tampa, FL Ph: 1-800-237-0230
 ID: 81734137 Page 10 of 11



CARTERSVILLE STEEL MILL
 384 OLD GRASSDALE RD NE
 CARTERSVILLE GA 30121 USA
 (770) 387-3300

Chemical and Physical Test Report
 Made and Melted in USA

G-163944

SHIP TO INFRA METAL-PREUSSAG INTN'L 8 PENT HIGHWAY 203-294-2980 APPT/JOE COSTELLO WALLINGFORD, CT 06482	INVOICE TO INFRA METALS CT ATTN: Accounts Payable 8 PENT HIGHWAY WALLINGFORD, CT 06492	SHIP DATE 11/11/10 CUST. ACCOUNT NO 50042985
--	---	---

PRODUCED IN: CARTERSVILLE

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
W12 X 14#	50 A57250/992	ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A	0116181-03	NE-24887-03
HEAT I.D.	C Mn P S Si Cu Ni Cr Mo V Nb B N Sn Al Ti Ca Zn C Eqv			
G106179	.08 .98 .015 .012 .30 .32 .09 .09 .021 .029 .002 .0004 .0100 .014 .002 .00200 .00140 .00440 .35			

Mechanical Test: Yield 60000 PSI, 413.69 MPA Tensile: 73800 PSI, 508.83 MPA %E: 24.8/8in, 24.8/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test: Yield 61100 PSI, 421.27 MPA Tensile: 74100 PSI, 510.9 MPA %E: 23.4/8in, 23.4/200MM
 Customer Requirements CASTING: STRAND CAST
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

PRODUCED IN: CARTERSVILLE

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
W14 X 22#	55 A57250/992	ASTM A572 GR50-07, ASTM A992 -06A, ASTM A709 GR50-09A	0116056-04	NE-24803-04
HEAT I.D.	C Mn P S Si Cu Ni Cr Mo V Nb Sn Al C Eqv			
G106314	.09 .93 .018 .029 .23 .37 .10 .13 .013 .002 .015 .013 .003 .34			

Mechanical Test: Yield 57200 PSI, 394.38 MPA Tensile: 69500 PSI, 479.19 MPA %E: 23.2/8in, 23.2/200MM
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 Mechanical Test: Yield 58500 PSI, 389.55 MPA Tensile: 70500 PSI, 486.08 MPA %E: 22.1/8in, 22.1/200MM
 Comment: NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.

Customer Notes

NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
 All manufacturing processes including melt and cast, occurred in USA. MTR complies with EN10204 3.1B

Bhaskar
 Bhaskar Yalamanchili
 Quality Director
 Gerdau Ameristeel

THE ABOVE FIGURES ARE CERTIFIED EXTRACTS FROM THE ORIGINAL CHEMICAL AND PHYSICAL TEST RECORDS AS CONTAINED IN THE PERMANENT RECORDS OF COMPANY.

Zachary
 Metallurgical Services Manager
 CARTERSVILLE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER, AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller. Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect the material in question.

Customer Name
JAMES A MCBRADY INC

Customer PO#
16824

Invoice No
78811

Shipper No
76444

Heat Number
2012552

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

11/12/10 4:32:54
100% MELIED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENI HIGHWAY

Ship To: INFRA METALS CORP - CI
8 PENI HIGHWAY

Customer #.: 502 - 1

WALLINGFORD, CI 06492

WALLINGFORD, CI 06492

B.o.L. #...: 847783

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #23.
AASHTO : M270-50-05
ASTM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 10 50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr xxxxxx	Mn Mo Ti	P Sn xxxxxx	S B xxxxxx	Si V N	Cu Nb xxxxxx	Ni xxxxxx CI	CE1 CE2 Pcm
W10x12 030' 00.00' W250X17.9 009.1440m	1006276 A992-06A	.83	59400 410	71600 494	27.86	.06 .02	.83 .00	.010 .0058	.017 .0004	.18 .002 .0040	.07 .017	.02	.21 .2519 .1219
8 Piece(s) Customer PO: NE-27183FF Inv#: 0													
W10x12 035' 00.00' W250X17.9 010.6680m	2012552 A992-06A	.81	55600 383	68300 471	27.54	.06 .04	.79 .01	.009 .0078	.024 .0002	.22 .004 .0053	.19 .015	.06	.23 .2700 .1301
8 Piece(s) Customer PO: NE-27183FF Inv#: 0													
W10x12 040' 00.00' W250X17.9 012.1920m	2012541 A992-06A	.82	56300 388	68600 473	27.46	.07 .07	.84 .01	.013 .0079	.024 .0003	.22 .002 .0079	.23 .014	.05	.25 .2955 .1467
40 Piece(s) Customer PO: NE-27183FF Inv#: 0													
W10x12 050' 00.00' W250X17.9 015.2400m	1012607 A992-06A	.82	57100 394	69600 480	27.60	.06 .05	.82 .02	.009 .0089	.026 .0003	.24 .003 .0053	.22 .014	.06	.24 .2848 .1351
6 Piece(s) Customer PO: NE-27183FF Inv#: 0													

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 $CI = 26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.28P - (7.29Cu \times Ni) - (9.10Ni \times P) - 33.39(Cu \times Cu)$ $CE1 = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$ $CE2 = C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me
_____ day of _____

Heat Number
2012960

Shipper No
76444

Invoice No
78811

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

11/12/10 5:24:12

100% MELIED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Ship To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Customer #.: 502 - 1
B.o.I. #...: 847787

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-10 and A370. Quality Manual Rev #23.
ARSEID : M270-50-05
ASTM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 10 50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr xxxxxx	Mo Ti	Sn xxxxxx	B xxxxxx	V N	Nb xxxxxx	CI xxxxxx	CE2 Pcm
W8X31 050' 00.00' W200X46.1 015.2400m	2010295 A992-06A	.81	55900 385	69000 476	26.26	.06 .05	1.00 .00	.008 .0082	.024 .0004	.25 .003	.17 .029	.04	.26 .3132 .1430
						6 Piece(s)		Customer PO: NE-27183FF				Inv#:	0
W8X31 050' 00.00' W200X46.1 015.2400m	2012960 A992-06A	.80	56500 390	70200 484	23.88	.06 .03	1.00 .00	.009 .0088	.026 .0002	.26 .004	.19 .028	.05	.26 .3125 .1417
						6 Piece(s)		Customer PO: NE-27183FF				Inv#:	0
W8X31 055' 00.00' W200X46.1 016.7640m	2013006 A992-06A	.81	57800 399	71800 495	21.54	.07 .04	1.06 .01	.011 .0082	.027 .0003	.20 .004	.18 .032	.07	.28 .3264 .1548
						9 Piece(s)		Customer PO: NE-27183FF				Inv#:	0
W8X31 055' 00.00' W200X46.1 016.7640m	1012999 A992-06A	.81	57500 396	71200 491	23.25	.06 .04	1.06 .01	.010 .0081	.030 .0003	.23 .003	.18 .030	.06	.27 .3162 .1413
						3 Piece(s)		Customer PO: NE-27183FF				Inv#:	0

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Ni)-(9.10Ni*P)-33.39(Cu*Cu) CE1= C+{Mn/6}+{(Cr+Mo+V)/5}+{(Ni+Cu)/15}
 Pcm = C+(Si/30)+{Mn/20}+{Cu/20}+{Ni/63}+{Cr/20}+{Mo/15}+{V/10}+5B CE2 = C+{(Mn+Si)/6}+{(Cr+Mo+V+Cb)/5}+{(Ni+Cu)/15}

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work
Metallurgist

(State of South Carolina
County of Berkeley
Sworn and subscribed before me
_____ day of _____

Customer Name
JAMES A MCBRADY INC

Customer PO#
16824

Invoice No
78811

Shipper No
76444

Heat Number
1009236



CMC STEEL ALABAMA
101 S 50TH STREET
BIRMINGHAM AL 35212-3525

CERTIFIED MILL TEST REPORT

For additional copies call
800-637-3227

We hereby certify that the test results presented here
are accurate and conform to the reported grade specification

Marcus W. McCluney - CMC Steel AL

Quality Assurance Manager

HEAT NO.:1009236	S	Infra-Metals/Wall	S	Infra-Metals/Wall	Delivery#: 80399706
SECTION: CHANNEL 8"x13.75# 40"O	O		H		BOL#: 314939
A36/572T1	L	8 Pent Hwy	I	8 Pont Hwy	CUST PO#: NE-27153
GRADE: ASTM A36-08/A572-07 Gr50	D	Wallingford CT	P	Wallingford CT	CUST P/N:
TP1		US 06492-2336		US 06492-2336	DLVRY LBS / HEAT: 9900.000 LB
ROLL DATE: 11/03/2010	T	8002434410	T	8002434410	DLVRY PCS / HEAT: 18 EA
MELT DATE: 10/31/2010	O	2032942993	O	2032942993	

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.12%	Elongation Gage Lgth test 1	8IN		
Mn	0.73%	Yield to tensile ratio test1	0.76		
P	0.012%	Yield Strength test 2	52.8ksi		
S	0.028%	Tensile Strength test 2	70.1ksi		
Si	0.20%	Elongation test 2	25%		
Cu	0.26%	Elongation Gage Lgth test 2	8IN		
Cr	0.14%	Yield to tensile ratio test2	0.75		
Ni	0.13%				
Mo	0.049%				
V	0.002%				
Cb	0.011%				
Sn	0.011%				
B	0.0004%				
Ti	0.001%				
N	0.0087%				
Carbon Eq A6	0.31%				
Yield Strength test 1	53.7ksi				
Tensile Strength test 1	70.4ksi				
Elongation test 1	25%				

THIS MATERIAL IS FULLY KILLED, 100% MELTED AND MANUFACTURED IN THE USA, WITH NO WELD REPAIR OR MERCURY CONTAMINATION IN THE PROCESS.

REMARKS :

Heat Number
2010308

Shipper No
76443

Invoice No
78810

Customer PO#
16824

Customer Name
JAMES A MCBRADY INC

NUCOR STEEL - BERKELEY
P.O. Box 2259
Mt. Pleasant, S.C. 29464
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

11/07/10 5:14:40

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and
rolled to a fully killed and fine grain practice.
Mercury has not been used in the direct manufacturing of this material.

Sold To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Ship To: INFRA METALS CORP - CI
8 PENT HIGHWAY
WALLINGFORD, CT 06492

Customer #: 502 - 1
B.O.I. #: 846882

PO #
16824

SPECIFICATIONS: Tested in accordance with ASIM specification A6/A6M-10 and A370. Quality Manual Rev #23.
AASHTO : M270-50-05
ASIM : A992-06A:A36-08/A529-05-50/A572-07-50/A709 09a50/A709-345M

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr xxxxxx	Mn Mo Ti	P Sn xxxxxx	S B xxxxxx	Si V N	Cu Nb xxxxxx	Ni CI xxxxxx	CE1 CE2 Pcm
W8X10 060' 00.00' W200X15.0 018.2880m	1012695 A992-06A	.82	57100 394	69600 480	26.91	.07 .03	.81 .01	.007 .0119	.022 .0002	.19 .003	.18 .015	.05	.23 .2695 .1322
			388	474								4.24	0
W8X31 030' 00.00' W200X46.1 009.1440m	2010308 A992-06A	.81	59400 410	72900 503	22.39	.06 .04	1.05 .00	.009 .0082	.028 .0003	.29 .003	.18 .029	.05	.27 .3272 .1466
			409	500								4.42	0
W8X35 030' 00.00' W200X52 009.1440m	1010286 A992-06A	.79	55000 379	69200 477	23.19	.07 .02	1.01 .00	.008 .0065	.020 .0003	.25 .004	.12 .031	.03	.25 .3072 .1401
			381	475								3.40	0
W8X35 050' 00.00' W200X52 015.2400m	2012952 A992-06A	.81	56900 392	70500 486	24.41	.07 .03	1.05 .01	.009 .0078	.027 .0002	.26 .003	.18 .029	.05	.27 .3247 .1473
			394	492								4.45	0

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu*Ni)-(9.10Ni*P)-33.39(Cu*Cu) CE1= C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce R. Work
Metallurgist
(State of South Carolina
County of Berkeley
Sworn and subscribed before me
_____ day of _____

<u>Customer Name</u>	<u>Customer PO#</u>	<u>Invoice No</u>	<u>Shipper No</u>	<u>Heat Number</u>
JAMES A MCBRADY INC	16817	76531	74161	M04955

04Aug10 18:23 TEST CERTIFICATE No: MAR 704349

Sold By:	INDEPENDENCE TUBE CORPORATION	P/O No NE20556
	6226 W. 74TH STREET	Rel
	CHICAGO, IL 60638	S/O No MAR 171818-006
Tel: 708-496-0380	Fax: 708-563-1950	B/L No MAR 102303-004
		Shp 05Aug10
		Inv No
		Inv

Sold To: (914)
 INFRA-METALS
 8 FENT HIGHWAY
 WALLINGFORD, CT 06492

Ship To: (1)
 INFRA-METALS (TRUCK)
 8 FENT HIGHWAY
 WALLINGFORD, CT

PO # 16817

Tel: 203-294-2980 Fax: 203 294-2993

CERTIFICATE of ANALYSIS and TESTS Cert. No: MAR 704349
 03Aug10

Part No		Pcs	Wgt
TUBING A500C		4	5,277
8" SQ X 3/8" X 35'			

Heat Number	Tag No	Pcs	Wgt
M04955	211098	4	5,277
	YLD=51640/TEN=68550/ELG=38.9		

Heat Number M04955 *** Chemical Analysis ***
 C=0.2000 Mn=0.8000 P=0.0110 S=0.0090 Si=0.0180 Al=0.0520
 Cu=0.0400

WE PROUDLY MANUFACTURE ALL OF OUR HSS IN THE USA.
 INDEPENDENCE TUBE PRODUCT IS MANUFACTURED, TESTED,
 AND INSPECTED IN ACCORDANCE WITH ASTM STANDARDS.

CURRENT STANDARDS:
 A500/A500M-07
 A513-07
 A252-98 (2002)

Ha

04
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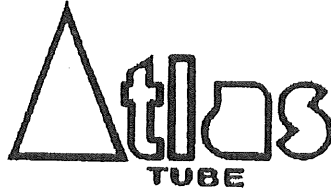
15

Customer Name: JAMES A MCBRADY INC Customer PO#: 16817 Invoice No: 76531 Shipper No: 74161 Heat Number: 802368

10/05/2010 TUE 21:27 FAX 5197385061 atlastube shipping

003/004

Atlas Tube Canada ULC
200 Clark St.
Harrow, Ontario, Canada
NOR 1G0
Tel: 519-738-3541
Fax: 519-738-3537



Ref.B/L: 80401480
Date: 10.05.2010
Customer: 81

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

MATERIAL TEST REPORT

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 6.0x6.0x375x40"0"0(3x2). Material No: 600603754000 Made in: Canada
Sales order: 586600 Purchase Order: NE-24224 stk firm Melted in: Canada

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
690465	0.210	0.800	0.008	0.006	0.016	0.042	0.064	0.005	0.004	0.021	0.038	0.002	0.000	0.000	0.000

Bundle No: M100973989 Yield: 059550 Psi Tensile: 067950 Psi Eln.2In: 31.0 % Certification: ASTM A500-07 GRADE B&C CE: 0.36

Material Note:
Sales Or.Note:

Material: 6.0x6.0x375x40"0"0(3x2). Material No: 600603754000 Made in: Canada
Sales order: 586600 Purchase Order: NE-24224 stk firm Melted in: Canada

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
690382	0.210	0.820	0.014	0.007	0.013	0.039	0.041	0.005	0.002	0.012	0.042	0.002	0.000	0.000	0.000

Bundle No: M100973984 Yield: 053810 Psi Tensile: 062460 Psi Eln.2In: 30.0 % Certification: ASTM A500-07 GRADE B&C CE: 0.36

Material Note:
Sales Or.Note:

Material: 8.0x8.0x375x40"0"0(3x2). Material No: 800803754000 Made in: Canada
Sales order: 586600 Purchase Order: NE-24224 stk firm Melted in: Canada

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
802368	0.190	0.770	0.010	0.009	0.012	0.000	0.070	0.005	0.003	0.016	0.047	0.002	0.000	0.000	0.000

Bundle No: M200696783 Yield: 055480 Psi Tensile: 065090 Psi Eln.2In: 32.5 % Certification: ASTM A500-07 GRADE B&C CE: 0.34

Material Note:
Sales Or.Note:

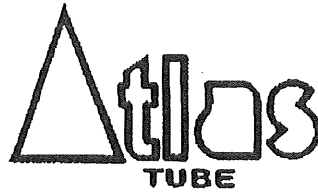
Authorized by Quality Assurance: *M. White*
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.

Computed using the AWS D1.1 method.



Customer Name JAMES A.MCBRADY INC **Customer PO#** 16817 **Invoice No** 76531 **Shipper No** 74161 **Heat Number** 802370

Atlas Tube Canada ULC
200 Clark St.
Harrow, Ontario, Canada
N0R 1G0
Tel: 519-738-3541
Fax: 519-738-3537



Ref.B/L: 80401978
Date: 10.12.2010
Customer: 81

Sold to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

MATERIAL TEST REPORT

Shipped to

Infra-Metals Corporation
8 Pent Highway
WALLINGFORD CT 06492
USA

Material: 8.0x8.0x313x40"0"(2x2).

Material No: 80080313

Made in: Canada

Melted in: Canada

Sales order: 576497

Purchase Order: NE-22036 FIRM**

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
690384	0.210	0.830	0.016	0.010	0.019	0.048	0.058	0.005	0.003	0.018	0.042	0.002	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification	CE: 0.37
M200699073	064320 Psi	075600 Psi	25.0 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x8.0x375x45"0"(2x2).

Material No: 80080375

Made in: Canada

Melted in: Canada

Sales order: 576497

Purchase Order: NE-22036 FIRM**

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
802644	0.190	0.800	0.010	0.006	0.013	0.000	0.039	0.005	0.002	0.013	0.043	0.002	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification	CE: 0.34
M200698799	062680 Psi	075730 Psi	32.0 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

Material: 8.0x8.0x375x30"0"(1x1).CTMIL

Material No: 80080375

Made in: Canada

Melted in: Canada

Sales order: 576497

Purchase Order: NE-22036 FIRM**

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
802370	0.210	0.820	0.014	0.007	0.016	0.000	0.062	0.006	0.003	0.013	0.049	0.002	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification	CE: 0.37
0002412996	058450 Psi	071930 Psi	32.5 %	ASTM A500-07 GRADE B&C	

Material Note:
Sales Or.Note:

M. Weber
Authorized by Quality Assurance:
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.
Certification using the AWS D1.1 method.

