James a. Mc Brady, Inc.

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

Nonconformance Procedure

1. Material that is found during the inspection processes to not be in conformance with contract documents is noted in fabrication log or on detail drawings and returned to the fab area.

2. Supervisory personnel are notified and take corrective action if necessary.

3. Material discrepancies will be reinspected, and if found acceptable, will be so noted in the fabrication log or on detail drawings and will be sent on for shipping.

James A. McBrady, Inc.

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

Final Inspection

1. All material furnished by James A. McBrady, Inc. is to be given a final visual inspection by quality control prior to shipment for completeness and conformance with approved shop drawings.

2. Shop supervision or quality control keeps a record of each piece fabricated.

James a. Mc Brady, Inc.

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

I igh Strength Bolted Connection

S ructural joints using ASTM A325 and A490 bolts.

Ref: AISC Section 5, 9th edition

1. Bolted parts shall fit solidly together when assembled in properly aligned holes and shall not be separated by gaskets or any other interposed compressible material.

Al joint surfaces, including those adjacent to the bolt heads, nuts, or washers, shall be free from sc ie, except tight mill scale, and shall be free from burrs, dirt and other foreign material that would prevent solid seating of the parts. Paint is permitted unconditionally in bearing-type co nections. Contact surfaces with friction-type joints shall be free of all paint, lacquer or other coa ings or as specified in contract documents.

2. V ashers

A3. 5 fasteners may be installed without hardened washers when tightening is by the turn-of-nut metl od. A490 bolts installed by the turn-of -nut method and A325 or A490 bolts tightened by the calib ated wrench method (i.e., by torque control), shall have a hardened washer under the elem nt (nut or bolt head), turned in tightening. Additionally, a hardened washer shall be used with ll A490 bolts under the element not turned in tightening if the material against which it bears has a specified minimum yield point less than 40 KSI.

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

Where an outer face of the bolted parts has a slope greater than 1:20 with respect to a plane normal to the bolt axis, a bevelled washer shall be used to compensate for the lack of parallelism.

3.Tightening: Turn-of-nut tightening

When the turn-of-nut method is used to provide the tension there shall first be enough bolts brought to a "snug tight" condition to ensure that the parts of the joint are brought into good contact with each other. Snug tight is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. Following this initial operation, bolts shall be placed in any remaining holes in the connection and brought to snug tightness. All bolts in the connection shall then be tightened additionally by the applicable amount ot nut rotation specified in Table 5 with tightening progressing systematically from the most rigid part of the joint to its free edges. During this operstion, there shall be no rotation of the part not turned by the wrench.

Reuse

A490 bolts and galvanized A325 bolts shall not be reused. Other A325 bolts may be reused if approved by the engineer responsible. Retightening previously tightened bolts which may have been loosened by tightening of adjacent bolts shall not be considered as a reuse.

Table 5. Nut Rotation from Snug Tight Condition[a,b]

Bolt length (Under side of head to end of bolt)	Disposition of Outer Face of Bolted Parts		
	Both faces normal to bolt axis	One face normal to bolt axis and other sloped not more than 1:20 (beveled washer not used)	Both faces sloped not more than 1:20 from normal to the bolt axis (beveled washer not used)
Up to and including 4 diameters	1/3 turn	1/2 turn	2/3 turn
Over 4 diameters but not exceeding 8 dia.	1/2 turn	2/3 turn	5/6 turn
Over 8 diameters but not exceeding 12 dia.[c]	2/3 turn	5/6 turn	1 turn

[a]Nut rotation is relative to bolt regardless of the element (nut or bolt) being turned. For bolts installed by 1/2 turn and less, the tolerance should be plus or minus 30 degrees; for bolts installed by 2/3 turn and more, the tolerance should be plus or minus 45 degrees.

[b]Applicable only to connections in which all material within the grip of the bolt is steel.

[c]No research has been performed by the Council to establish the turn-of-nut procedure for bolt lengths exceeding 12 diameters. Therefore, the required rotation must be determined by actual test in a suitable tension measuring device which simulates conditions of solidly fitted steel.

James a. Mc Brady, Inc.

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

The following A.I.S.C. checklist is used by company personnel to ensure that policies are followed according to A.I.S.C. standards.

INSPECTION-EVALUATION CHECK LIST
CONVENTIONAL STEEL BUILDING STRUCTURES

NO.	ITEM	COMMENTS	YES	NO
	Application Screen			
App1 (E)	Is there a written quality policy statement describing company policy, goals and commitment to quality?		☑	☐
App2 (E)	Is there a description of the organization with positions established to carry out quality functions?		☑	☐
App3 (E)	Are biographical information and qualifications of key managers shown and matched to the positions filled as showing the organization description?		☑	☐
App4 (E)	Is there a list of major equipment and a facility plan?		☑	☐
App5 (E)	Is there a list of recent projects showing experience in the type of work for which certification is sought?		☑	☐
	Procedures			
App7 (E)	Is there a bolt installation procedure?		☑	☐
App8 (E)	Is there an acceptable inspection procedure?		☑	☐
App9 (E)	Is there an acceptable non-conformance procedure?		☑	☐
	Administration			
App11 (E)	Is the information required for program administration shown?		☑	☐

NO.	ITEM	COMMENTS	YES	NO
	GENERAL MANAGEMENT			
	Policy			
A.1.a (E)	Is there a written policy statement adequately describing company policy, goals and commitment to quality?		☑	☐
	Organization			
A.2.a	Are functions effecting quality assigned to positions that are adequately defined by job descriptions and an organization chart?		☑	☐
A.2.b (C)	Are personnel qualified for, and capable of, performance of their duties? (Qualifications include continuing education and/or society activities for professionals.)		☑	☐
	Procedures			
A.3.a (C)	Does management review project quality requirements prior to production, allocate adequate resources, assign or contract for project activities by suitably qualified personnel and select or create necessary quality procedures for the work?		☑	☐
A.3.b (E)	Are quality requirements particular to projects (like coating requirments, weld restrictions, etc.) effectively communicated to plant departments?		☑	☐

 Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
A.3.c	Are fabrication and erection requirements (like adjustment needs, erection aids and sequencing of NDT) and priorities reviewed prior to production?		☑	☐
A.3.d	Are drawing, material and production due dates scheduled (by suitable areas or sequences) and are schedules disseminated to appropriate personnel?		☑	☐
A.3.e	Are drawing, material and production schedules maintained and current throughout the year?		☑	☐
A.3.f	Are requests for information documented?		☑	☐
	Experience			
A.4.a. (E)	Has the fabricator supplied simple buildings or provided training to his men?		☑	☐

Footnote 1 *Qualifications:*

Familiarity with quality and specification requirements and construction practices.

One position in any category may be short of the requirement to allow for personnel changes.

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
	ENGINEERING & DRAFTING			
	Organization			
B.1.a	Is the Drafting Mgr. familiar with pertinent codes and specs.?		☑	☐
	If there is an in-house drafting room Items B.1.b-B.1.d are to be evaluated.			
B.1.b	Do drafters have the ability to transfer the material requirements noted on the design drawings to advance bills of material for their use by the Purchasing Dept.?		☑	☐
B.1.c	Do drafters have adequate knowledge of the applicable material specifications?		☑	☐
B.1.d	Do drafters have adequate knowledge of mill rolling practices as they affect structural steel?		☑	☐
	If detail drawings are sublet, items B.1.e-B.1.g are to be evaluated.			
B.1.e (C)	Are details sublet to a qualified structural drafting firm that has a drafting manager who is an engineering technician (some trade school or college training and/or experience) and is familiar with codes and specifications?		☑	☐
B.1.f (C)	Does the in-house drafting manager assure that instructions are furnished to the sublet drafters?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
B.1.g	Does the in-house drafting mgr. take action to assure quality compliance by outside detailers?		☑	☐
	If there is an in-house Engineering Department items B.1.h & B.1.i are to be evaluated.			
B.1.h	Is there a person capable of supervising in-house design or evaluating and coordinating outside design?	NA	☐	☐
B.1.i	Does the company have adequate in-house design engineers or does it consistently use consultants qualified by registration or experience?	OUTSIDE SOURCES	☑	☐
	Procedure			
B.2.a	Does the drafting department maintain a current log of design drawings and specification receipts with the latest revisions and dispositions?		☑	☐
B.2.b	Is there a procedure for the control, distribution and revision of job specifications and special provisions to appropriate plant and quality control personnel?		☑	☐
B.2.c	Are there provisions to assure that obsolete drawings are destroyed or isolated from use throughout the plant? (May be assured by other departments.)		☑	☐
B.2.d (C)	Does the drafting department maintain a current log of shop detail drawings with latest approval, revisions and dispositions?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

INSPECTION-EVALUATION CHECK LIST Conventional Steel Building Structures

NO.	ITEM	COMMENTS	YES	NO
B.2.e	Are drafting practices coordinated with erection requirements?		☑	☐
B.2.f	Are company drafting standards adequate?		☑	☐
B.2.g (C)	Are detail drawings checked by qualified personnel?		☑	☐
B.2.h (E)	Are all detail drawings reviewed or approved by the owner?		☑	☐

 Plant:_____ Inspector's Init.:_____ Date:____/____/____

INSPECTION-EVALUATION CHECK LIST Conventional Steel Building Structures

NO.	ITEM	COMMENTS	YES	NO
	Facilities and Resources			
B.3.a (C)	Is there an adequate and current library of specifications including:		☑	☐
	AISC:			
	Manual Steel Const ✓			
	Vol II Conns. ✓			
	Det'l'g Steel Const ✓			
	Quality Criteria & Insp. Stds. ✓			
	ANSI/AWS ✓			
	D1.1 ✓			
	ASTM as req'd ✓			
	SSPC for paint ✓			

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
	PROCUREMENT			
	Organization			
C.1.a	Are buyers familiar with ordering information required to control variables effecting quality of purchased material?		✓	
	Procedures			
C.2.a (E)	Is material ordered in accordance with the design drawings and specifications?		✓	
C.2.b (C)	Are procedures in effect to assure subcontract fabrication is ordered to contract requirements?		✓	
C.2.c (C)	Where a level of certification is required by contract documents, is appropriate fabrication sublet to fabricator holding the required certification?		✓	
C.2.d	Are procurement sources adequately evaluated?		✓	
C.2.e	Are all other purchased materials (bolts, paint, castings, etc) checked for conformance to purchasing documents upon receipt?		✓	
C.2.f	Are controls set up to assure adequate identification of incoming purchased items?		✓	
C.2.g (E)	Are records maintained and is a written procedure functioning to assure traceability of grade, and where required, heat numbers and material test reports for special requirements?		✓	

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
C.2.h (E)	Are manufacturer's test reports or certificates of conformance of bolts, weld wire, paint, etc. kept on file?		☑	☐
C.2.i (E)	Are mill test reports kept on file?		☑	☐
	Facilities and Resources			
C.3.a	Are current copies of ASTM specifications available to purchasing personnel?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
	OPERATIONS			
	Organization			
D.1.a (E)	Is shop supervision conversant with current workmanship provisions of AWS & AISC specifications?		☑	☐
D.1.b (C)	Does the fabricator have a competent welding technician, supervisor or outside expert available on call?		☑	☐
D.1.c (C)	Are welders qualified per ANSI/AASHTO/ AWS?		☑	☐
	Procedures & Practices			
	Material Receipt & Storage			
D.2.a i (C)	Is the grade of material and marking verified prior to fabrication? *(see note 1)*		☑	☐
D.2.a ii (C)	Are welding electrodes, flux, bolts and paint stored properly and identified? (including RCT lot when applicable)		☑	☐
D.2.a. iii (C)	Are flux and rod ovens adequate and operating per AWS latest adoption?		☑	☐
	Fabrication			
D.2.b i (E)	Is fabrication in accordance with contract documents and specifications and are finished products shipped in accordance with approved detail drawings?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
D.2.b ii (E)	Is there a procedure for handling revisions and voided drawings?		☑	☐
D.2.b iii	Is material inspected for conformance to ASTM A6?		☑	☐
D.2.b iv (E)	Is material identity retained during fabrication and restocking?		☑	☐
D.2.b v	Do welders identify welds they make?		☑	☐
D.2.b vi	Do welders know, comply with and check their welds to the workmanship and technique requirements of AISC & AASHTO/AWS?		☑	☐
D.2.b vii	Is workmanship checked throughout the fabrication process to conform to contract documents and specifications? Is checking in accordance with the company inspection procedure?		☑	☐
D.2.b viii	Are approved written weld procedures in close proximity to and used by the welders?		☑	☐
D.2.b ix (C)	Are written bolt tightening procedures used? *(see note 2)*		☑	☐
D.2.b x	Are provisions for agitation, temperature and humidity measurement and methods of paint application adequate and functional?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
D.2.b xi	Are provisions for wet & dry film measurement and control adequate & functioning?		☑	☐
D.2.b xii	Are there provisions for suitable loading blocking and bracing for shipment?		☑	☐
	Non-conformances			
D.2.c i (E)	Is there a functioning, written procedure for disposition of non-conforming material or work in-process rejected by QC personnel?		☑	☐
D.2.c ii	Is an effective system used to indicate conforming or non-conforming work in progress?		☑	☐
D.2.c iii	Does the procedure include provision for action to avoid future non-conforming work?		☑	☐
	Equipment Condition			
D.2.d i (C)	Are welding machines periodically checked to ensure correct amp and volt readings and is a record kept? (except SMAW)		☑	☐
D.2.d ii	Is manual welding equipment that is in use in acceptable operating condition?		☑	☐
	Facilities and Resources			
D.3.a	Does the fabricator have automatic or semi-automatic equipment for making continuous welds?		☑	☐

 Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
D.3.b	Does the fabricator have mechanically-guided burning equipment?		☑	☐
D.3.c	Does the fabricator have mechanical paint agitators and other painting equipment? (May be NA if a qualified subcontractor is used for painting.)		☑	☐
D.3.d	If the fabricator is involved in metalizing and stud welding, is his equipment adequate? (May be NA depending on the type of work)	NA	☐	☐
D.3.e	Does the fabricator have adequate and accurate hole-making equipment? (Punches and drills)		☑	☐
D.3.f	Does the fabricator have adequate and accurate cutting and finishing equipment? (Shears, saw, milling machine, planer and/or grinder.)		☑	☐
D.3.g	Does the fabricator have material handling equipment including cranes to move material without damage?		☑	☐
D.3.h	Is housekeeping adequate?		☑	☐
D.3.i	Is the air supply adequate?		☑	☐
D.3.j	Is the electrical supply adequate?		☑	☐
D.3.k	Does the operations manager have space and assistance to permit efficient performance?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
	QUALITY CONTROL			
	Organization			
E.1.a	Are there qualified shop inspectors?		☑	☐
E.1.b	Is there a functioning program for training shop inspectors?		☑	☐
E.1.c	Does the QC organization include at least one certified level II magnetic particle inspection technician certified in accordance with ASNT-TC-1A on staff or available from outside sources?		☑	☐
E.1.d	Is there a qualified testing service available and used if required?		☑	☐
	Procedures and Practices			
E.2.a (C)	Is there a written quality assurance system and are quality procedures followed?		☑	☐
E.2.b	Is there separation of responsibility for the Production Supervision function and the Quality Control Supervision function?		☑	☐
E.2.c	Is the in-process and final inspection procedure implemented?		☑	☐
E.2.d (E)	Does Quality Control have authority to stop and responsibility to inform the operating supervisor of non-conforming work?		☑	☐
E.2.e	Is a record kept of all inspections such as by noted detail drawings?		☑	☐

Plant:_____ Inspector's Init.:_____ Date:____/____/____

NO.	ITEM	COMMENTS	YES	NO
E.2.f	Is a check made to ensure that approved welding procedures are disseminated and followed in the shop?		☑	☐
E.2.g	Is surface preparation (including grinding and fins) checked prior to painting?		☑	☐
E.2.h	Is the coating checked after application?		☑	☐
E.2.i	Are there adequate procedures for liaison with outside inspectors?		☑	☐
	Facilities and Resources			
E.3.a (C)	Do inspectors have the following equipment available? Tapeline ✓ Welding gages ✓ Tag system		☑	☐
E.3.b	Is the following equipment available? X-ray incl. viewing rm & viewer UT scope MPT equipt. LPT equipt Isotope	NA	☐	☐
E.3.c	Are there reference standards for periodically calibrating: Paint gages Tapeline NDE equipt. Torque wrenches (Skidmore)		☑	☐

 Plant:_____ Inspector's Init.:_____ Date:____/____/____

Cert Summary Page HAYDON BOLTS, INC.

P.O. # 13504

JAMES A. MC BRADY INC.

Customer PO 13504

Invoice No. B6070541 **Invoice Date** 07/17/06 **Sales Order** K01734

Cert No	Inv Line No	Item No	Quantity	Lot No	Heat	Assembly No	Haydon PO
28923	10000	HBAG069400	110		518591		A46194
	Description: 3/4(10)X 14" HEX BOLT A307A HDG 6" RT				Manufacturer:	STEEL CITY BOLT & SCREW LLC.	
24023	30000	HNAG075	110	C OF C	C OF C		A43690
	Description: 3/4(10) HEX NUT A563A HDG				Manufacturer:	STELFAST FASTENERS INC.	
22267	40000	WFAG075	110	C OFC			A41382
	Description: 3/4 FLAT ROUND WASHER F844 HDG				Manufacturer:	COATESVILLE WASHER CO.	

HAYDON BOLTS, INC.

JAMES A. MC BRADY INC.

Customer PO 13504

Invoice No. B6070541

Invoice Date 07/17/06

Sales Order K01734

Cert No	Inv Line No	Item No	Quanttity	Lot No	Heat	Assembly No	Haydon PO
28923	10000	HBAG069400	110		518591		A46194

"WE PUT THINGS TOGETHER"

JUN 29 2006

Steel City Bolt & Screw, LLC

PHONE 205 / 942-4567
FAX 205 / 940-9727
www.boltscrew.com

POST OFFICE BOX 1747 / 230 WEST VALLEY AVENUE
BIRMINGHAM, ALABAMA 35209

HAYDON BOLT
ADAMS AVE & UNITY ST.
PHILADELPHIA PA 19124

PO#: A46194

THIS IS TO CERTIFY THAT THE MATERIAL LISTED BELOW WILL CONFORM TO THE FOLLOWING SPECIFICATIONS"

MATERIAL	FINISH	QTY	DESCRIPTION	HEAT#
A307	A153	1033	3/4 X 14 HB	518591

SINCERELY,

NOTARY PUBLIC AFFIRMED AND SUBSCRIBED THIS DAY OF

6-23- 2006

BIRMINGHAM | ATLANTA | JACKSONVILLE | HOUSTON

METALPLATE

Metalplate Galvanizing, Inc.

STEEL CITY BOLT & SCREW
P.O. BOX 1747
BIRMINGHAM, ALABAMA 35201

HAYDON BOLT **A46194**

WE CERTIFY THAT THE MATERIAL ON YOUR ABOVE ORDER WAS GALVANIZED IN ACCORDANCE WITH SPECIFICATIONS SET FORTH IN ASTM STANDARD SPECIFICATION DESIGNATIONS:

FINISH	DESCRIPTION	HEAT#
A153	3/4 X 14 HB	518591

METALPLATE GALVANIZING, INC.

Donald E. Crowe, Plant Manager

I Certify the above to be correct.

June O. Meeks, Notary Public

Corporate Offices
1120 39th Street North
Post Office Box 966
Birmingham, Alabama 35201-0966
Telephone (205) 595-4700
Fax (205) 595-7800

Birmingham Plant Number 1
757 44th Street North
Post Office Box 966
Birmingham, Alabama 35201-0966
Telephone (205) 595-1106
Fax (205) 591-4659

Birmingham Plant Number 2
1120 39th Street North
Post Office Box 966
Birmingham, Alabama 35201-0966
Telephone (205) 595-7103
Fax (205) 595-2965

SHEFFIELD
Steel Corporation
P.O. Box 218 Sand Springs, OK 74063

Certified Mill Test Report

Sold To:
STEEL CITY BOLT & SCREW, INC.
P.O. BOX 1747

BIRMINGHAM, AL 35201

Attn: HENRY LEONARD
Fax #: (205) 940-9727

Ship To:
STEEL CITY BOLT & SCREW, INC.
230 WEST VALLEY AVENUE
PH:205-942-4567
BIRMINGHAM, AL 35201

Fax #: (205) 940-9727

Ship Date:	Print Date:	Release No:	Mill Order No:	Customer Order:	BOL No:	Carrier:
12/08/2005	12/8/2005	M6544B	10-AL0015-000138-01	VERB KENN 120705	65946	LOADS INC. AS BROKER

Product:	Grade:	Size:	Length:
ROUND SS-STD	A36	0.6770 "	20' 0"

Grade Description: ASTM A36 & F1554-36 - WELDABLE

Heat	PCS / BDLS	Pounds
0518591	171	4196
0519442	840	20612

Chemical Analysis:

Heat	C	Mn	P	S	Si	Cu	Cr	Mo	Ni	Sn	Cb	V
0518591	0.15	0.70	0.015	0.020	0.21	0.24	0.09	0.03	0.08	0.010	0.003	0.003
0519442	0.15	0.74	0.009	0.023	0.21	0.19	0.09	0.03	0.07	0.008	0.001	0.003

Physical Properties:

Heat	Yield (psi / Mpa)	Tensile (psi / Mpa)	Elongation % 8" gauge
0518591	50,080 psi / 345 Mpa	67,890 psi / 468 Mpa	27.5
0519442	49,400 psi / 341 Mpa	67,900 psi / 468 Mpa	28.0

By: _____
Quality Assurance Department

This is to certify that chemical and or test results are a true copy of records contained in our company. Sheffield Steel Products are 100% melted and manufactured in the U.S.A. Material is produced Mercury Free and not repaired by welding

HAYDON BOLTS, INC.

JAMES A. MC BRADY INC.

Invoice No. B6070541

Customer PO 13504

Invoice Date 07/17/06

Sales Order K01734

Cert No	Inv Line No	Item No	Quantity	Lot No	Heat	Assembly No	Haydon PO
24023	30000	HNAG075	110	C OF C	C OF C		A43690

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 IEI standards.

Ralph Faustino
Philadelphia Sales Manager

E-mail: info@stelfast.com • Website: www.stelfast.com
Atlanta • Cleveland • Dallas • Edmonton • Houston • Montreal • Toronto

HAYDON BOLTS, INC.

JAMES A. MC BRADY INC.

Invoice No. B6070541

Customer PO 13504

Invoice Date 07/17/06

Sales Order K01734

Cert No	Inv Line No	Item No	Quanttity	Lot No	Heat	Assembly No	Haydon PO
22267	40000	WFAG075	110	C OFC			A41382

COATESVILLE WASHER COMPANY/ALAMER

CERTIFICATE OF COMPLIANCE

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

DATE: NOVEMBER 15, 2004

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, 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: Robert Kunemch
GENERAL MANAGER

103 West First Avenue • Parkesburg, PA 19365 • (610) 857-2656 • Fax: (610) 857-0110

PO # 13532

CHAPARRAL STEEL
CERTIFIED MATERIAL TEST REPORT
CHAPARRAL STEEL
300 Ward Rd.
Midlothian, TX
76065-9651
(972) 775-8241

Order Date:06/29/2006
PO No:C19842
Mill Order No:3170684
Load No:1043200
Manifest No:1760711

Bill To:
INFRA-METALS CORPORATION-CT,R
DIV PREUSSAG INTERNATIONAL CO
8 PENT HWY
WALLINGFORD CT
06492 US

Ship To: 1
INFRA-METALS CORPORATION-CT
8 PENT HIGHWAY
TRACK# 953
WALLINGFORD CT
06492 US

SIZE
W 8 X 58# / W200 X 86

GRADE
992/572-50

LENGTH
35 FT / 10.668 M

PRODUCT
WF BEAMS

SPECIFICATION
ASTM A6-05a, A992-04a, A572-04

HEAT NO:30304500

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	1.07	.009	.034	.24	.32	.10	.06	.015	.015	.000	.001	.022	.3

PHYSICAL PROPERTIES

Yield Strength KSI	Yield Strength MPa	Tensile Strength KSI	Tensile Strength MPa	Specimen Area Sq In	Specimen Area Sq cm	Elongation %	Gage Length		Bend Test Dia.	Result	ROA %
54.6	376.5	71.3	491.6	1.211	7.81	23.5	8In	200 mm			
55.4	382.0	71.9	495.7	1.216	7.85	23.5	8In	200 mm			

All manufacturing processes of this product, including electric arc melting and continuous casting, occurred in the U.S.A. CMTR complies with DIN EN 10204 3.1.B

"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: [signature] Date:Jul. 01, 2006 Signed: _____ Date: _____
Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

DATE	6/15/06
INVOICE NO.	51537
BILL OF LADING	789939
CUSTOMER NO.	9310
CUSTOMER P.O.	P C18815 FF

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 • BLYTHEVILLE, AR 72316

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

SHIP TO
INFRA-METALS CORP
8 PENT HIGHWAY
TRACK # 953
WALLINGFORD, CT 06492

SPECIFICATIONS
ASTM A992/A992M-04a A572/A572M GR50-04
ASTM A709/A709M-03a GR50 (345)
ASTM A709/A709M-03a GR50S (345S)
ASTM A6/A6M-05a

SOLD TO
INFRA-METALS CORP.
8 PENT HIGHWAY
WALLINGFORD, CT 06492

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES: YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	IMPACT ENERGY FT-LBS / JOULES	CHEMICAL PROPERTIES: C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W08 - 58.0	1	275679	.70	52000	74000	25			.07	1.26	.025	.026	.30	.26	.12	.14	.04	.01	.024	.35
	35'			.70	52000	74000	25											.01	.16		
	W200 x 86.0				359	510	25														
	LO.668 M				359	510	25														
2	W08 - 58.0	4	275681	.71	53000	75000	24			.09	1.30	.025	.026	.32	.27	.11	.13	.04	.02	.028	.38
	35'			.70	52000	74000	25											.01	.19		
	W200 x 86.0				365	517	24														
	LO.668 M				359	510	25														

Pcm = C + Si/30 + Mn/20 + Cu/20 + Ni/60 + Cr/20 + Mo/15 + V/10 + 5B (Alloy 0005)

CARBON EQUIVALENT: CE = CE(IIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15

Corrosion Index: CI=26.01(%Cu)+3.88(%Ni)+1.20(%Cr)+1.49(%Si)+17.28(%P)-7.29(%Cu)(%Ni)-9.10(%Ni)(%P)-33.39(%Cu)^2

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

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

Gary Lonnell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 15 Day of 06/06

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

CHARLENE WALLIS MY Comm. Exp. NOTARY PUBLIC 10-21-2013 MISSISSIPPI CO. ARKANSAS

DATE	6/15/06
INVOICE NO.	51537
BILL OF LADING	789939
CUSTOMER NO.	9310
CUSTOMER P.O.	P C18815 FF

NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 • BLYTHEVILLE, AR 72316

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

SHIP TO
INFRA-METALS CORP
8 PENT HIGHWAY
TRACK # 953
WALLINGFORD, CT 06492

SPECIFICATIONS
ASTM A992/A992M-04a A572/A572M GR50-04
ASTM A709/A709M-03a GR50 (345)
ASTM A709/A709M-03a GR50S (345S)
ASTM A6/A6M-05a

SOLD TO
INFRA-METALS CORP.
8 PENT HIGHWAY
WALLINGFORD, CT 06492

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES: YIELD TO TENSILE RATIO	YIELD STRENGTH PSI / MPa	TENSILE STRENGTH PSI / MPa	ELONG % / %	CHARPY IMPACT TEMP °F / °C	IMPACT ENERGY FT-LBS / JOULES	CHEMICAL PROPERTIES: C	Mn	P	S	Si	Cu	Ni	Cr	Mo / Sn	V / Pcm	Cb	CE / CI
1	W08 - 58.0	1	275679	.70	52000	74000	25			.07	1.26	.025	.026	.30	.26	.12	.14	.04	.01	.024	.35
	85			.70	52000	74000	25											.01	.16		
	W200 x 86.0				359	510	25														
	10.668 M				359	510	25														
2	W08 - 58.0	4	275681	.71	53000	75000	24			.09	1.30	.025	.026	.32	.27	.11	.13	.04	.02	.028	.38
	81			.70	52000	74000	25											.01	.19		
	W200 x 86.0				365	517	24														
	10.668 M				359	510	25														

Pcm = C + Si/30 + Mn/20 + Cu/20 + Ni/60 + Cr/20 + Mo/15 + V/10 + 5B (Appens. 000)

CARBON EQUIVALENT: CE = CE(IIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15

Corrosion Index: CI=26.01(%Cu)+3.88(%Ni)+1.20(%Cr)+1.49(%Si)+17.28(%P)-7.29(%Cu)(%Ni)-9.10(%Ni)(%P)-33.39(%Cu)^2

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

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

Gary Lemmell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS 15 Day of 06/06

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

CHARLENE WALLIS MY Comm. Exp. NOTARY PUBLIC 10-21-2013 MISSISSIPPI CO. ARKANSAS

Date:4/28/2006 Time:1:24 PM @ 9,1(203)679-4260

Steel Dynamics, Inc.
2601 S. County Road 700 East
Columbia City, IN 46725-9044
(260) 625-8100

Certified Mill Test Report

100% Melted and Manufactured in USA

Date: 4/28/2006
Customer No: 000198
Bill of Lading No: 0000079279
MTR #: 0000078912

Ship to:
Infra Metals-CT
8 Pent Highway
Wallingford, CT 06492
Attn: Mark Johnson / David Dudzinski

Bill to:
INFRA METALS-CT
8 Pent Highway
Wallingford, CT 06492
Attn: Mark Haight

Item	Bundle	Section	Length	Pcs	Heat #	Grade(s)	Specification(s)	Customer P.O.
12a	020543332	W8X58	60' 0"	3	B020381	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	C19708
12b	020543332	W8X58	60' 0"	1	B020403	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	C19708
13	020563345	W10X100	50' 0"	2	B021170	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	C19374
14	020584334	W12X210	60' 0"	1	B021973	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	C19374

CHEMICAL

Item	C	Mn	P	S	Si	Cu	V	Cr	Ni	Mo	Sn	N	B	Cb	C1	C2	PC				Analysis
12a	.10	1.16	.018	.032	.20	.36	.006	.19	.10	.023	.013	.0072	.0003	.019	.36	.40	.19				HEAT
12b	.08	1.27	.011	.036	.24	.33	.003	.07	.11	.025	.015	.0088	.0004	.021	.34	.38	.18				HEAT
13	.04	1.32	.011	.027	.22	.50	.062	.08	.10	.017	.016	.0105	.0003	.002	.34	.37	.16				HEAT
14	.07	1.33	.014	.028	.19	.43	.073	.14	.11	.027	.028	.0119	.0003	.001	.38	.41	.18				HEAT

MECHANICAL

Tension Testing Results

Item	Test	Yield (Fy) Strength ksi/MPa	Tensile (Fu) Strength ksi/MPa	Fy/Fu	Elong (%) based on 8" gauge	ROA (%)	Bend Test Result
12a	1	54/374	71/488	.76	24		
12a	2	52/361	70/482	.74	24		
12b	1	51/354	77/531	.66	21		
12b	2	54/373	77/531	.70	35		
13	1	58/402	75/516	.77	21		
13	2	58/399	76/525	.76	22		
14	1	53/365	76/521	.70	20		
14	2	56/385	74/510	.76	21		

Charpy Impact Testing Results

Test	Temp F/C	Sample 1 ft. lb/joules	Sample 2 ft. lb/joules	Sample 3 ft. lb/joules	% Shear	ASTM Grain Size No (per ASTM E112)
1						
2						
1						
2						
1						
2						
1						
2						

I hereby certify that the contents of this report are accurate and correct. All tests and operations performed by this material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated.

Signed: _____
Quality Assurance

State of Indiana, County of Whitley

Sworn to and subscribed before me this
____ day of _____

Signed: _____
Notary Public

My commission expires: _____

Special Comments/Information:

C1(IIW)=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15 C2(AWS)=C+(Mn+Si)/6+(Cr+Mo+V)/5+(Ni+Cu)/15 PC=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B Icorr=25.01(Cu)+3.69(Ni)+1.20(Cr)-1.49(Si)+17.29(P)-7.29(Cu)(Ni)-9.10(Ni)(P)-33.39(Cu)2 (per ASTM G101)

23May06 9:50 T E S T C E R T I F I C A T E No: MAR 404140

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74TH STREET
CHICAGO, IL 60638
Tel: 708-496-0380 Fax: 708-563-1950

P/O No C19194
Rel PART I OF II
S/O No MAR 108923-008
B/L No MAR 67390-004 Shp 22May06
Inv No MAR -004 Inv 23May06

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

Ship To: (8)
INFRA-METALS (RAIL)
8 PENT HIGHWAY
TRACK #953
WALLINGFORD, CT

P.O. # 13529

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

CERTIFICATE of ANALYSIS and TESTS Cert. No: MAR 404140
23May06

Part No		Pcs	Wgt
TUBING A500C			
8" X 6" X 1/2" X 55'		8	18,502

Heat Number	Tag No	Pcs	Wgt
78727D	974179	4	9,251
	YLD=57330/TEN=74240/ELG=38.2		
M24025	974181	4	9,251
	YLD=54930/TEN=71650/ELG=40.2		

Heat Number	*** Chemical Analysis ***
78727D	C=0.2100 Mn=0.7400 P=0.0100 S=0.0050 Si=0.0110 Al=0.0390 Cu=0.0200
M24025	C=0.2100 Mn=0.7900 P=0.0150 S=0.0090 Si=0.0100 Al=0.0490 Cu=0.0300

MANUFACTURED IN USA
MEETS THE REQUIREMENTS ASTM A-500 GRADE B(C)-03a

Atlas Tube (Arkansas) Inc.
5000 N. County Rd. 967
Blytheville, Arkansas, USA
72315
Tel: 519-738-5000
Fax: 519-738-3537

Ref.B/L: 80200759
Date: 07.18.2006
Customer: 81

Atlas TUBE INC.

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: 7.0x3.0x250x2'1'6"0(3x6)SCSP517 Material No: 70030250 Made in: USA
Sales order: 227710 Purchase Order: VERBAL

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
851690	0.050	1.180	0.012	0.004	0.021	0.023	0.096	0.000	0.019	0.034	0.037	0.002

Bundle No	Yield	Tensile	Eln.2in	Certification
894604	065470 Psi	068430 Psi	37.5 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Material: 6.0x6.0x313x40'0"0(2x3). Material No: 80060313 Made in: USA
Sales order: 237544 Purchase Order: B198477TD

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
A38322	0.170	0.690	0.017	0.003	0.120	0.022	0.000	0.000	0.000	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification
975453	057960 Psi	066280 Psi	35.2 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Material: 6.0x6.0x313x40'0"0(2x3). Material No: 80060313 Made in: USA
Sales order: 237544 Purchase Order: B198477TD

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
A38322	0.170	0.690	0.017	0.003	0.120	0.022	0.000	0.000	0.000	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification
M3-103120	057960 Psi	066280 Psi	35.2 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Material: 6.0x6.0x313x40'0"0(3x2). Material No: 80060313 Made in: USA
Sales order: 237544 Purchase Order: B198477TD

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
A38322	0.170	0.690	0.017	0.003	0.120	0.022	0.000	0.000	0.000	0.000	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification
975452	057960 Psi	066280 Psi	35.2 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Authorized by Quality Assurance: Renee

Steel Tube Institute OF NORTH AMERICA

Metals Service Center Institute

07/18/2006 09:49 FAX

18Jul06 12:51 T E S T C E R T I F I C A T E No: MAR 411590

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74TH STREET
CHICAGO, IL 60638
Tel: 708-496-0380 Fax: 708-563-1950

P/O No C20023/C20066MF
Rel
S/O No MAR 111078-003
B/L No MAR 68527-002 Shp 17Jul06
Inv No MAR -002 Inv 18Jul06

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

Ship To: (2)
INFRA-METALS (RAIL)
8 PENT HIGHWAY
TRACK #953
WALLINGFORD, CT

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

CERTIFICATE of ANALYSIS and TESTS Cert. No: MAR 411590
18Jul06

Part No
TUBING A500 GRADE B(C) Pcs Wgt
6" X 4" X 5/16 X 30' 6 3,434

Heat Number Tag No Pcs Wgt
625980 982869 6 3,434
YLD=60890/TEN=75660/ELG=32.8

Heat Number *** Chemical Analysis ***
625980 C=0.2200 Mn=0.8600 P=0.0080 S=0.0050 Si=0.0200 Al=0.0500
Cu=0.0200

MANUFACTURED IN USA
MEETS THE REQUIREMENTS ASTM A-500 GRADE B(C)-03a

08May06 10: T E S T C E R T I F I C A T E No: MAR 401635

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74TH STREET
CHICAGO, IL 60638
Tel: 708-496-0380 Fax: 708-563-1950

P/O No C19102
Rel PT I OF II
S/O No MAR 108546-003
B/L No MAR 67072-010 Shp 05May06
Inv No MAR -002 Inv 08May06

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

Ship To: (2)
INFRA-METALS (RAIL)
8 PENT HIGHWAY
TRACK #953
WALLINGFORD, CT

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

CERTIFICATE of ANALYSIS and TESTS Cert. No: MAR 401635
08May06

Part No		Pcs	Wgt
TUBING A500C			
6" SQ X 1/4" X 35'		12	7,988
Heat Number	**Tag No**	**Pcs**	**Wgt**
511892	972380	3	1,997
	YLD=53960/TEN=74650/ELG=35.2		
511892	972382	9	5,991

Heat Number *** Chemical Analysis ***
511892 C=0.2300 Mn=0.8600 P=0.0100 S=0.0050 Si=0.0200 Al=0.0590
Cu=0.0200

MANUFACTURED IN USA
MEETS THE REQUIREMENTS ASTM A-500 GRADE B(C)-03a

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: 80195143
Date: 06.12.2006
Customer: 81

Atlas TUBE INC.

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: 6.0x2.0x250x30'0"0(3x7).DOWN Material No: 60020250 Made in: USA
Sales order: 230652 Purchase Order: C19549KM

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
4354592	0.200	0.910	0.012	0.008	0.016	0.037	0.040	0.000	0.010	0.020	0.030	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification
M700004511	056700 Psi	073790 Psi	34 %	ASTM A500-03A GR B DOWNGRADE

Material Note:
Sales Or.Note:

Material: 4.0x4.0x250x24'0"0(5x4). Material No: 400402502400 Made in: USA
Sales order: 228545 Purchase Order: C20019MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
E53506	0.190	0.760	0.011	0.010	0.025	0.041	0.130	0.000	0.016	0.040	0.050	0.003

Bundle No	Yield	Tensile	Eln.2in	Certification
M700010813	058230 Psi	074980 Psi	33 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Material: 4.0x4.0x250x24'0"0(5x4). Material No: 400402502400 Made in: USA
Sales order: 228545 Purchase Order: C20019MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
E61373	0.200	0.740	0.014	0.008	0.018	0.043	0.110	0.000	0.010	0.040	0.050	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification
M700010813	062000 Psi	076510 Psi	32 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Material: 4.0x4.0x250x24'0"0(5x4). Material No: 400402502400 Made in: USA
Sales order: 228545 Purchase Order: C20019MF

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V
GF2986	0.220	0.890	0.011	0.005	0.015	0.053	0.080	0.001	0.000	0.010	0.050	0.002

Bundle No	Yield	Tensile	Eln.2in	Certification
M700014091	058020 Psi	078200 Psi	30 %	ASTM A500-03A GRADE C & B

Material Note:
Sales Or.Note:

Authorized by Quality Assurance: _____ Carrie Lauritzen

Steel Tube Institute OF NORTH AMERICA

Metals Service Center Institute

09Jun06 8:50 T E S T C E R T I F I C A T E No: MAR 406733

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74TH STREET
CHICAGO, IL 60638
Tel: 708-496-0380 Fax: 708-563-1950

P/O No C20014
Rel PT I OF II
S/O No MAR 110692-004
B/L No MAR 67893-001 Shp 09Jun06
Inv No Inv

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

Ship To: (2)
INFRA-METALS (RAIL)
8 PENT HIGHWAY
TRACK #953
WALLINGFORD, CT

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

CERTIFICATE of ANALYSIS and TESTS Cert. No: MAR 406733
09Jun06

Part No		Pcs	Wgt
TUBING A500C			
4" SQ X 1/4" X 40'		24	11,722

Heat Number	Tag No	Pcs	Wgt
S62462	979437	4	1,954
	YLD=65350/TEN=71270/ELG=24.7		
S62462	979441	20	9,768

Heat Number *** Chemical Analysis ***
S62462 C=0.0500 Mn=0.8500 P=0.0100 S=0.0030 Si=0.0310 Al=0.0300
Cu=0.0940

MANUFACTURED IN USA
MEETS THE REQUIREMENTS ASTM A-500 GRADE B(C)-03a

NOVA TUBE AND STEEL CORPORATION
600 Dean Sievers Place
Morrisville, PA, 19067
Tel: 215-295-8813 Fax: 215-295-8798

TEST CERTIFICATE

Sold to: INFRA-METALS CORP.
Ship to: INFRA-METALS CORP.
8 PENT HIGHWAY
WALLINGFORD, CONNECTICUT
06492

DATE SHIPPED: 06/14/06
B/L #: 141778
P.O. #:C20031
SALES ORDER #: 122318

s0p12h10v0s0b3T

Description	Dimensions	Pcs	Mill/Heat Number	Specifications
HSS Square Tubing	4x4x0.188x480	30	ERI /610583	ASTM A 500 B/C
HSS Square Tubing	4x4x0.250x540	48	ARC /36116105	ASTM A 500 B/C
HSS Square Tubing	4x4x0.250x540	24	DOF /284451	ASTM A 500 B/C

s0p15h12v0s0b3T

Chemical Analysis

Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Cb	Mo	V	Al	N	Sn	B	Ti
ERI/610583	0.191	0.453	0.012	0.008	0.177	0.028	0.028	0.018	-	-	0.005	0.040	-	-	-	-
ARC/36116105	0.066	0.448	0.016	0.012	0.006	-	-	-	-	-	-	0.038	0.045	-	-	-
DOF/284451	0.230	0.740	0.006	0.010	0.040	0.040	0.010	0.040	-	0.003	0.004	0.046	0.004	0.005	-	0.002

s0p10h12v0s0b3T

Mechanical Test Results

Heat Number/Size	Yield Strength	Tensile Strength	Elong.%	Hardness
ERI/610583 4x4x0.188	65,829	73,806	28.00	
ARC/36116105 4x4x0.250	64,193	69,899	25.00	
DOF/284451 4x4x0.250	61,234	71,714	28.00	

Heat #	Manufactured in
ERI /610583	United States
ARC /36116105	United States
DOF /284451	United States

Authorized by Andrew Hurlbrink, Quality Ctrl Dept
JUN 14, 2006 10:40:40
s0p10h12v0s0b3T
s0p10h12v0s0b3T

18Jul06 12:51

T E S T C E R T I F I C A T E

No: MAR 411590

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74TH STREET
CHICAGO, IL 60638
Tel: 708-496-0380 Fax: 708-563-1950

P/O No C20023/C20066MF
Rel
S/O No MAR 111078-003
B/L No MAR 68527-002 Shp 17Jul06
Inv No MAR -002 Inv 18Jul06

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

Ship To: (2)
INFRA-METALS (RAIL)
8 PENT HIGHWAY
TRACK #953
WALLINGFORD, CT

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

CERTIFICATE of ANALYSIS and TESTS

Cert. No: MAR 411590
18Jul06

Part No
TUBING A500 GRADE B(C)
6" X 4" X 5/16 X 30'

Pcs	Wgt
6	3,434

Heat Number	Tag No	Pcs	Wgt
625980	982869	6	3,434

YLD=60890/TEN=75660/ELG=32.8

Heat Number
625980

*** Chemical Analysis ***
C=0.2200 Mn=0.8600 P=0.0080 S=0.0050 Si=0.0200 Al=0.0500
Cu=0.0200

MANUFACTURED IN USA
MEETS THE REQUIREMENTS ASTM A-500 GRADE B(C)-03a

Bill To:
METALS USA PLATES & SHAPES NE
50 CABOT BOULEVARD EAST
LANGHORNE PA
19047 US

Ship To: 5
METALS USA
10 TOWER ROAD
SEEKONK MA
02771 US

Order Date:01/18/2006
PO No:SKO-1622
Mill Order No:3079727
Load No:1024541
Manifest No:1743798

CERTIFIED MATERIAL TEST REPORT

CHAPARRAL

CHAPARRAL STEEL
300 Ward Rd.
Midlothian. TX
76065-9651
(972) 775-8241

SPECIFICATIONS
ASTM A6-05a. A992-04a. A572-04

SIZE
W 21 X 44# / W530 X 66

GRADE
992/572-50

LENGTH
55 FT / 16.764 M

PRODUCT
WF BEAMS

PO # 13528

HEAT NO: 30291500

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	1.07	.014	.040	.23	.40	.10	.09	.013	.015	.002	.001	.019	.31

PHYSICAL PROPERTIES

Yield Strength KSI	Yield Strength MPa	Tensile Strength KSI	Tensile Strength MPa	Specimen Area Sq In	Specimen Area Sq cm	Elongation %	Gage Length		Bend Test Dia.	Bend Test Result	ROA %
60.1	414.4	75.3	519.2	0.677	4.37	21.5	8 In	200 mm			
59.7	411.6	75.5	520.6	0.714	4.61	23.0	8 In	200 mm			

All manufacturing processes of this product, including electric arc melting and continuous casting, occurred in the U.S.A. CMTR complies with DIN EN 10204 3.1.B

"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 spe

Signed: Tom L. Harrington Date: Apr. 17, 2006
Tom L. Harrington: Quality Assurance Manager

Signed: _____ Date: _____
Notary Public (if applicable)

Page: 1 of 1

METALS USA - SEEKONK - TEST REPORT
Customer: James A. McBrady
Date: 8-4-06
Your P.O. #: 13528
Our Charge #: 118725

Steel Dynamics, Inc.
2601 S. County Road 700 East
Columbia City, IN 46725-9044
(260) 625-8100

Certified Mill Test Report
100% Melted and Manufactured in USA

Date: 4/28/2006
Customer No: 000274
Bill of Lading No: 0000079163
MTR #: 0000078796

Ship to:
Seekonk Prime Outside
10 Tower Road
Seekonk, MA 02771
Attn: Ron Morin

Bill to:
METALS USA-CORPORATE
50 Cabot Blvd East
Langhorne, PA 19047

Item	Bundle	Section	Length	Pcs	Heat #	Grade(s)	Specification(s)	Customer P.O.
5a	020593955	W18X40	55' 0"	3	A022356	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	SKO-1722
5b	020593955	W18X40	55' 0"	3	A022357	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	SKO-1722
6a	020593965	W18X40	55' 0"	5	A022357	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	SKO-1722
6b	020593965	W18X40	55' 0"	1	A022358	A992 / A992M A709 g50S/g345S A572 gr50/gr345	ASTM A992/A992M - 04a ASTM A709/A709M - 05 ASTM A572/A572M - 04	SKO-1722

CHEMICAL

Item	C	Mn	P	S	Si	Cu	V	Cr	Ni	Mo	Sn	N	B	Cb	C1	C2	PC				Analysis
5a	.08	.94	.013	.025	.19	.32	.001	.07	.11	.023	.013	.0059	.0003	.019	.28	.31	.15				HEAT
5b	.07	.93	.014	.032	.21	.32	.001	.07	.11	.024	.013	.0072	.0003	.017	.28	.31	.15				HEAT
6a	.07	.93	.014	.032	.21	.32	.001	.07	.11	.024	.013	.0072	.0003	.017	.28	.31	.15				HEAT
6b	.08	.92	.014	.032	.25	.28	.001	.10	.11	.024	.012	.0063	.0004	.016	.28	.33	.16				HEAT

MECHANICAL

Tension Testing Results

Item	Test	Yield (Fy) Strength ksi/MPa	Tensile (Fu) Strength ksi/MPa	Fy/Fu	Elong (%) based on 8" gauge	ROA (%)	Bend Test Result
5a	1	62/425	73/503	.85	26		
5a	2	62/429	75/519	.83	27		
5b	1	62/427	76/526	.82	26		
5b	2	59/407	71/491	.83	25		
6a	1	62/427	76/526	.82	26		
6a	2	59/407	71/491	.83	25		
6b	1	58/402	70/481	.83	26		
6b	2	62/426	77/531	.81	25		

Charpy Impact Testing Results

Test	Temp F/C	Sample 1 ft. lb/joules	Sample 2 ft. lb/joules	Sample 3 ft. lb/joules	% Shear	ASTM Grain Size No (per ASTM E112)
1						
2						
1						
2						
1						
2						
1						
2						

I hereby certify that the contents of this report are accurate and correct. All tests and operations performed by this material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated.

Signed: _____
Quality Assurance

State of Indiana, County of Whitley

Sworn to and subscribed before me this
____ day of _____

Signed: _____
Notary Public

My commission expires: _____

Special Comments/Information: METALS USA - SEEKONK - TEST REPORT
Customer: James A. McCarty
Date: 8-4-06
Your P.O. #: 135528
Our Charge #: 118725

C1(IIW)=C+Mn/6+(Cr+Mo+V0)/5+(Ni+Cu)/15 C2(AWS)=C+(Mn+Si)/6+(Cr+Mo+V)/5+(Ni+Cu)/15 PC=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B Icon=26.01(Cu)+3.88(Ni)+1.20(Cr)+1.49(Si)+17.29(P)-7.29(Cu)(Ni)-9.10(Ni)(P)-33.39(Cu)2 (per ASTM G101)

Bill To:
METALS USA PLATES & SHAPES NE
50 CABOT BOULEVARD EAST

LANGHORNE PA
19047 US

Ship To: 7
METALS USA
50 CABOT BLVD

LANGHORNE PA
19047 US

Order Date:04/25/2006
PO No:PHI-7899
Mill Order No:3130347
Load No:1033361
Manifest No:1751075

CHAPARRAL STEEL
CERTIFIED MATERIAL TEST REPORT
CHAPARRAL STEEL
300 Ward Rd.
Midlothian, TX
76065-9651
(972) 775-8241

SIZE
W 16 X 36# / W410 X 53

GRADE
992/572-50

LENGTH
55 FT / 16.764 M

PRODUCT
WF BEAMS

SPECIFICATION
ASTM A6-05a, A992-04a, A572-04

HEAT NO:30293990

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.09	1.00	.009	.031	.22	.33	.09	.08	.015	.012	.000	.000	.020	.3

PHYSICAL PROPERTIES

Yield Strength KSI	Yield Strength MPa	Tensile Strength KSI	Tensile Strength MPa	Specimen Area Sq In	Specimen Area Sq cm	Elongation %	Gage Length		Bend Test Dia. Result	ROA %
53.4	368.2	68.5	472.3	0.637	4.11	23.4	8In	200 mm		
54.1	373.0	70.9	488.8	0.646	4.17	24.8	8In	200 mm		

METALS USA - SEEKONK - TEST REPORT
Customer: James A. McGrady
Date: 8-4-06
Your P.O. #: 13528
Our Charge #: 118725

All manufacturing processes of this product, including electric arc melting and continuous casting, occurred in the U.S.A. CMTR complies with DIN EN 10204 3.1.B

"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
Tom L. Harrington: Quality Assurance Manager
Date: May. 18, 2006

Signed: _____
Notary Public (if applicable)
Date: _____