



Steel Dynamics®

Roanoke Bar Division

ORIGINAL

Steel Dynamics - Roanoke Bar Division
P.O. Box 13948 Roanoke, VA 24038
Office: 540-342-1831 Fax: 540-342-8437

Test and Inspection Report

NO. 96029-1

ROANOKE

ENERGY & PROCESS CORP-FERGUSON

P O BOX 125
TUCKER

GA 30085-0125

Date 6/08/10

HEAT NUMBER	SIZE	1-YIELD Pt. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE					
JH4087	FLATS 1/4 X 1 1/2	67.0	83.7	20.3		AH36					
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD PT. KSI	ULTIMATE KSI	ELONG 8 IN. TEST	BEND TEST	GRADE					
F257-313	480 PIECES 20'	64.4	81.9	19.6		AH36					
HEAT NUMBER	SIZE	1-YIELD Pt. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE					
JH4087	FLATS 6.4 X 38.1	462.0	577.1	20.3		AH36					
PURCHASE ORDER NUMBER	NUMBER PIECES	2-YIELD PT. MPA	ULTIMATE MPA	ELONG 203mm TEST	BEND TEST	GRADE					
F257-313	480 PIECES 20'	444.0	564.7	19.6		AH36					
C	MN	S	P	SI	CR	NI	MO	CU	V	NB	TI
.16	1.05	.035	.014	.20	.07	.11	.02	.26	.051	.001	.001

Charpy requirement:
25 ft-lbs @ +32° F

- 1) 35.0 ft-lbs
- 2) 45.0 ft-lbs
- 3) 43.0 ft-lbs

QA APPROVED
RONSON TECHNICAL PRODUCTS
Charles R. Charlton

W. O. Wood
11/18/7694
21 Jun 10



MATERIAL MANUFACTURED IN ACCORDANCE WITH OUR QUALITY MANUAL (REVISION 12, DATED 8-04-08) BASED UPON ISO 9001-2008, ASME SECTION III DIV NCA3800 2004N ED. 2006, ADDENDA AND ASME SECTION II, 10CFR50 APPENDIX B, 10CFR21 AS APPROVED BY ENERGY AND PROCESS CORP. MERCURY, RADIUM OR OTHER ALPHA SOURCE MATERIALS IN ANY FORM HAVE NOT BEEN USED IN THE PRODUCTION OF THIS MATERIAL. NO WELD REPAIR HAS BEEN PERFORMED.

MIL-S-22898 REV C AMD #1 & #2 AH36 CL-U

Approved ABS QA Mill. Certificate No. 00NN10108-X.

This material was melted and manufactured in the USA by basic Electric Furnace processes to meet specification: ASTM A572-06 GR 50 TYPE 2

ABS-10 AH36

The tensile values stated in either inch-pound units or SI units are to be regarded as separate as defined in the ASTM scope for this material. Unless a metric specification is ordered, this material has been tested and meets the requirements of the inch-pound ranges.

This is to certify the above to be a true and accurate report as contained in the records of this company.

Engineer of Tests: Charles R. Charlton



AMERICAN BUREAU OF SHIPPING

Customer Name	STEEL DYNAMICS-ROANOKE BAR DIVISION	Purchase Order No.	
Attendee's Name	Wesley D. Moore, III	Report No. of s.	1000170001
First Visit Date	21-Jun-2010	Last Visit Date	21-Jun-2010

Certification Of: Carbon Steel

Survey Location : Newport News, Virginia

Manufacturer STEEL DYNAMICS-ROANOKE BAR DIVISION
Purchaser Name ENERGY & PROCESS CORP - TUCKER, GA

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

For ABS Grades, all tests and examinations as required by the Rules were carried out and found satisfactory.
 Manufacturer test records and/or mill certificates were confirmed to comply with specification.
 Material accepted from a quality assurance plant. Results of above noted tests reviewed with specification.
 For details of Mechanical Properties and/or Chemical Composition, refer to the mill/manufacturer's records.

NOTE: This report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item or material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in the contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.