



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

<b>SO No., Item &amp; Date.:</b> 8001175 000050 2012/08/04	<b>Shipment No. &amp; Date.:</b> 1000000018 2012/08/04	<b>TC No., Date &amp; Time :</b> ESA-430 2012/08/08 - 11:32:00
<b>Sold to Customer Name and Address :</b> WILKINSON STEEL AND METALS INC 60TH AVENUE 9525 EDMONTON, Alberta, Canada T6E 0C3	<b>Ship to Customer Name and Address:</b> WILKINSON STEEL AND METALS INC 60TH AVENUE 9525 EDMONTON, Alberta, Canada T6E 0C3	<b>Customer PO NO./Item:</b> P20420CT002E / 6 <b>BOL NO.:</b> 1000000018 <b>Cust.Part No.:</b> <b>Carrier :</b> C P RAIL (CAD FUNDS) - TTPX 82520 REV
<b>Customer Specification :</b> HR STEEL PLATE Carbon Multi Cert ASTM A516 GR 70 (10) / ASME SA516 GR 70 (11A) MEETS NACE MR0175 - BHN 200 MAX Normalized Normalize Temp 1670 °F 17 min CVNL Req. 20 / 16 FT-LBF at -50.0 F Std Thickness Tol PVQ Top and Bottom Standard Surface Flatness 1/2 A20 Fine Grain Fully Killed		
<b>Supplementary Instructions :</b> Test Cert 1:780-435-8134 Test Cert 2: 604-301-3244		
<b>Insp T/R :</b> Test Report As Per Spec		<b>Cust Use :</b> PVQ
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. THIS TEST REPORT HAS BEEN GENERATED BY A COMPUTERIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE.		
MEETS EN 10204:2004 TYPE 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM		
ALL HEATS FULLY KILLED. HEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (+) Made in Canada for NAFTA duty preference and NAFTA marking purposes		

Dimensions (T x W x L)	Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)	Batch No.	Heat No-MS	Quantity	No. of Pcs
0.5000 " x 96.000 " x 480.00 "	00235	6042M-03	13,068 LB	2	0.5000 " x 96.000 " x 480.00 "	00238	6044M-01	13,068 LB	2
0.5000 " x 96.000 " x 480.00 "	00239	6044M-01	13,068 LB	2			-		

*****CHEMICAL PROPERTIES*****															
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	B	Ti	DO
6042M* <sup>+</sup>	0.20	1.07	0.013	0.003	0.340	0.02	0.15	0.04	0.01	0.031	0.000	0.015	0.0003	0.003	0.40
6044M* <sup>+</sup>	0.20	1.08	0.014	0.006	0.330	0.02	0.14	0.03	0.01	0.030	0.000	0.015	0.0002	0.002	0.40

KASHIF REHMAN  
MANAGER METALLURGICAL SERVICES

**\*\*WARNING\*\*** THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

*ANS*



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<b>Sold to Customer Name and Address :</b> WILKINSON STEEL AND METALS INC 60TH AVENUE 9525 EDMONTON,Alberta,Canada T6E 0C3		<b>Ship to Customer Name and Address:</b> WILKINSON STEEL AND METALS INC 60TH AVENUE 9525 EDMONTON,Alberta,Canada T6E 0C3		<b>Customer PO NO./Item:</b> P20420CT002E / 6 <b>BOL NO.:</b> 1000000018 <b>Cust.Part No.:</b> <b>Carrier :</b> C P RAIL (CAD FUNDS) - TTPX 82520 REV								
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***** MECHANICAL PROPERTIES *****												
<b>Hardness Tests</b>												
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	LOC	MTHD	HARDNESS				
6044M	00239	166"	ALG	0.5000	NORM	B	HBW	157				
6042M	00235	166"	ALG	0.5000	NORM	B	HBW	157				
6044M	00238	166"	ALG	0.5000	NORM	B	HBW	158				
<b>Impact Tests</b>												
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	SIZE	TEMP(°F)	FULLENERGY(ft-lbf)	FULL AVG(ft-lbf)
6042M	00235	166"	ALG	0.5000	NORM	CVN	L	B	FULL	-50	79 72 101	84
6044M	00238	166"	ALG	0.5000	NORM	CVN	L	B	FULL	-50	85 82 63	77
6044M	00239	166"	ALG	0.5000	NORM	CVN	L	B	FULL	-50	91 81 69	81

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***** MECHANICAL PROPERTIES *****												
<b>Tensile Tests</b>												
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)
6042M	00235	166"	ALG	0.5000	NORM	.2	T	B	52.9	76.8	8"	29
6044M	00238	166"	ALG	0.5000	NORM	.2	T	B	54.0	76.6	8"	27
6044M	00239	166"	ALG	0.5000	NORM	.2	T	B	52.9	76.2	8"	25

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