

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1532071	Dec 28, 2016	1
MILL ORDER NO.	DATE	
305016		
CUSTOMER ORDER NO.		
280492		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1532071	12/28/2016	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
SSW88164		

ISO 9001 REGISTERED
U.S. PLATE PRODUCER

SOLD TO

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STRUCTURAL QUALITY PLATE ASTM A36-14/ASME SA36 2015 ABS GR A/B A131 A/B NO WELD REPAIR. KILLED FINE GRAIN PRACTICE. .80 MIN MN, 1.20 MAX MN, REPORT ALL RESIDUALS PER SA20 TABLE 1(7.1.1).

PHYSICAL PROPERTIES

ITEM NO	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED TO THE APPLICABLE SPECIFICATION AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS.										
2	1.0000 X 96.000ME X 480.000	^ N12717		416	665	33				
	1 PC 13068 LBS		A1		LCVN @ 32	DEG F 10.0mm			232	232 236 / 233.3 ft.lbf
3	1.2500 X 96.000ME X 480.000	^ N12371		430	690	30				
	1 PC 16335 LBS		A30	473	680	34			238	236 234 / 236.0 ft.lbf
	1 PC 16335 LBS		A32		LCVN @ 32	DEG F 10.0mm			241	240 236 / 239.0 ft.lbf
	<u>3 PCS 45738 LBS TOTALS</u>									



CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca	CE	McQuaid Ehn Grain Size
^N12717	.14	.85	.011	.006	.23	.01	.05	.003	.000	.045	.02	.00						
^N12371	.14	.88	.014	.007	.22	.01	.05	.002	.000	.035	.04	.00						

HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.

..... END OF REPORT

Handwritten signature in blue ink

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

Quality Coordinator