


REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1532100	Dec 28, 2016	1
MILL ORDER NO.	DATE	
305016		
CUSTOMER ORDER NO.		
280492		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1532100	12/28/2016	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
SSW88295		



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

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 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.										
1	1.0000 X 120.000ME X 480.000	^ N12285		472 409	665 670	35 33				
	1 PC 16335 LBS		A30		LCVN @	32 DEG F	10.0mm	121	212	235 / 189.3 ft.lbf
	1 PC 16335 LBS		A32		LCVN @	32 DEG F	10.0mm	246	227	218 / 230.3 ft.lbf
3	1.2500 X 96.000ME X 480.000	^ N12371		430 473	690 680	30 34				
	1 PC 16335 LBS		A33		LCVN @	32 DEG F	10.0mm	239	226	248 / 237.7 ft.lbf
4	1.2500 X 120.000ME X 480.000	^ N12711		451 436	675 680	35 36				
	1 PC 20419 LBS		A23		LCVN @	32 DEG F	10.0mm	228	214	216 / 219.3 ft.lbf



CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca	CE	McQuaid Etn Grain Size
^N12285	.14	.87	.013	.005	.18	.01	.05	.008	.000	.033	.03	.00						
^N12371	.14	.88	.014	.007	.22	.01	.05	.002	.000	.035	.04	.00						
^N12711	.14	.84	.017	.007	.23	.01	.05	.009	.000	.033	.03	.00						

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

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

Charles D. Foy
Quality Coordinator