


## REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1592582	Feb 19, 2018	1
MILL ORDER NO.	DATE	
319504		
CUSTOMER ORDER NO.		
298397		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1592582	02/19/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
CW6032		



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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 ABS GRADE A/B KILLED FINE GRAIN ASTM A131 GRADE  
A/B ASTM A36-14 ASME SA36-17 NO WELD REPAIR. KILLED FINE GRAIN PRACTICE. .80  
MIN MN, 1.20 MAX MN, .

### 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.									
3	0.2500 X 96.000ME X 480.000									
	7 PCS 22869 LBS	^ N17182		474	660	31				
	6 PCS 19602 LBS	^ N17235		474	660	31				
				428	640	32				
	3 PCS 9801 LBS	^ N17249		446	650	29				
	7 PCS 22869 LBS	^ N17254		495	680	29				



### CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca	CE	McQuig Ehn Grain Size
^N17182	.13	.85	.012	.005	.23	.01	.05	.003	.000	.040	.02	.00						
^N17235	.14	.88	.016	.004	.23	.01	.05	.005	.000	.039	.02	.00						
^N17249	.13	.85	.012	.005	.20	.01	.05	.005	.000	.038	.02	.00						
^N17254	.14	.86	.014	.005	.24	.01	.05	.007	.000	.035	.02	.00						

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

*Charles D. [Signature]*

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

Quality Coordinator