


## REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1591730	Feb 14, 2018	1
MILL ORDER NO.	DATE	
319504		
CUSTOMER ORDER NO.		
298397		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1591730	02/14/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
CW6005		



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

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 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 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.										
5	0.3125 X 120.000ME X 480.000									
	2 PCS 10210 LBS	^ N17302		489 481	675 680	30 30				
	2 PCS 10210 LBS	^ N17306		492	685	32				
	3 PCS 15315 LBS	^ N17317		483	665	32				
	1 PC 5105 LBS	^ N17318		475	680	28				
	9 PCS 45945 LBS	^ N17325		444 477	645 670	27 30				



### 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
^N17302	.16	.87	.011	.006	.22	.01	.05	.003	.000	.040	.02	.00						
^N17306	.16	.89	.013	.006	.24	.01	.05	.005	.000	.035	.02	.00						
^N17317	.15	.87	.013	.007	.21	.01	.05	.004	.000	.036	.02	.00						
^N17318	.15	.82	.014	.005	.20	.01	.05	.004	.000	.037	.02	.00						
^N17325	.15	.84	.014	.005	.20	.01	.05	.003	.000	.039	.02	.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 \_\_\_\_\_

Quality Coordinator