


## REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1633984	Oct 21, 2018	1
MILL ORDER NO.	DATE	
326840		
CUSTOMER ORDER NO.		
306202		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1633984	10/21/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
SSW88162		



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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.										
1	0.3125 X 120.000ME X 480.000									
	4 PCS 20420 LBS	^ N19374		413 473	635 660	32 29				
	3 PCS 15315 LBS	^ N19383		472 430	665 635	34 32				
3	0.3750 X 120.000ME X 480.000									
	1 PC 6126 LBS	^ N19126		472 488	660 665	32 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
^N19374	.15	.89	.011	.007	.23	.01	.05	.007	.000	.038	.03	.00						
^N19383	.14	.93	.015	.007	.23	.01	.05	.008	.000	.034	.02	.00						
^N19126	.14	.86	.010	.000	.25	.01	.05	.002	.000	.043	.04	.00						

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

[Signature]