

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1591561	Feb 13, 2018	2
MILL ORDER NO.	DATE	
319506		
CUSTOMER ORDER NO.		
298397		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1591561	02/13/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
TTPX811236		

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 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	1.0000 X 120.000ME X 480.000									
		^ N17318		438	660	32				
				433	645	34				
	1 PC 16335 LBS		A20		LCVN @ 32	DEG F 10.0mm			182 197 182 / 187.0	ft.lbf
	1 PC 16335 LBS		A21		LCVN @ 32	DEG F 10.0mm			174 180 178 / 177.3	ft.lbf
	1 PC 16335 LBS		A22		LCVN @ 32	DEG F 10.0mm			214 200 162 / 192.0	ft.lbf
		^ N17328		403	620	29				
				408	615	30				
	1 PC 16335 LBS		A24		LCVN @ 32	DEG F 10.0mm			231 213 228 / 224.0	ft.lbf
	1 PC 16335 LBS		A25		LCVN @ 32	DEG F 10.0mm			242 227 211 / 226.7	ft.lbf
	1 PC 16335 LBS		A26		LCVN @ 32	DEG F 10.0mm			213 235 210 / 219.3	ft.lbf
	12 PCS 176418 LBS TOTALS									



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
^N17318	.15	.82	.014	.005	.20	.01	.05	.004	.000	.037	.02	.00						
^N17328	.14	.85	.013	.005	.20	.01	.05	.003	.000	.032	.02	.00						

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

..... END OF REPORT

Charles D. [Signature]

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

Quality Coordinator