

ArcelorMittal Burns Harbor Plate

QUALITY ASSURANCE
REPORT OF TEST AND ANALYSES

US HWY 12 Burns Harbor, Indiana

SHIPMENT NO. 803-24958	DATE SHIPPED 09-21-17	CAR OR VEHICLE NO. CSS-CHGO-UP	ATW 317192	PAGE 1
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NORTH SHORE SUPPLY CO PO BOX 9940 HOUSTON TX 77213-0940	S H I P T O	NORTH SHORE SUPPLY CO C/O WALTON BARGE TERMINAL ZONE 1 TRACK 776 13040 MARKET ST HOUSTON TX 77015
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SERIAL NUMBER	PAT NO.	HEAT NUMBER	NO. PCS.	SIZE AND QUANTITY				YIELD POINT	TENSILE STRENGTH	AF FRAC. ELONG.	RED.
				THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT				
				INCHES	INCHES	INCHES	POUNDS	PSI	PSI	IN %	

QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - ABS GR B KLD FINE GRAIN PRAC HULL
 REV 2017 CE=.40X C + (MN/6), ABS GR
 A REV 2017, ASTM A36-14 MOD
 MN.80/1.20, ASME SA36 2015 EDITION,
 ASTM A131-14 GR A & B

NO WELD REPAIR WAS PERFORMED ON BELOW PLATE(S)

CO# 292269 GH 353-1895C

811Y09960	17	.3125	96	480	69428	45700	68400	8	26
						45300	68700	8	24
821Y09960	26	.3125	96	480	106184	45700	68400	8	26
						45300	68700	8	24

Q-QUENCH TEMPERATURE

T-TEMPER TEMPERATURE

N-NORMALIZE TEMPERATURE

SERIAL NUMBER	PAT NO.	HEAT NUMBER	HARD BHN	BEND	CHARPY IMPACT													
					THICKNESS INCHES	TYPE	SIZE	DIR	TEST TEMP. F	ENERGY FT LBS			SHEAR(%)			LAT. EXP MILS		
										1	2	3	1	2	3	1	2	3

HEAT NUMBER	CHEMICAL ANALYSIS																MQUAID GRAIN SIZE
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb	N	Sn	
811Y09960	.16	.93	.011	.006	.209	.019	.01	.03	.004	.001	.002	.032	.0002	.002	.004	.002	
	CE																
	.32																
821Y09960	.16	.93	.011	.006	.209	.019	.01	.03	.004	.001	.002	.032	.0002	.002	.004	.002	
	CE																
	.32																

I certify that the above results are a true and correct copy of actual results contained in records maintained by ArcelorMittal Burns Harbor and are in full compliance with the requirements of the specification cited above. This test report cannot be altered and must be transmitted intact with any subsequent third party test reports, if required.

R. SPANGLER II PER **LSS**