

MITTAL STEEL USA
QUALITY DEPARTMENT
REPORT OF TESTS AND ANALYSES

BURNS HARBOR PLATE

SHIPMENT NO. 903-12480	DATE SHIPPED 05-16-07	CAR OR VEHICLE NO. BARY TER	TRLR 1600	PAGE 1
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SOLD TO

UTLX MFG INC
300 151ST ST & RAILROAD AVE
EAST CHICAGO IN 46312

SHIP TO

UTLX MFG INC
300 151ST ST & RAILROAD AVE-O/W-128
EAST CHICAGO IN 46312

NOTE	SERIAL NUMBER	PAT. NO.	HEAT NUMBER	SIZE AND QUANTITY					YIELD POINT	TENSILE STRENGTH	ELONG.		RED. %
				NO. PCS	THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT			IN	%	
					INCHES	INCHES	INCHES	POUNDS	PSI	PSI	IN	%	

PRODUCED UNDER A CERTIFIED WMS COMPLYING WITH ISO 9002 ABS-WE CERT. #30477
QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - AAR IC128 GR B FV0 (CFC-1149)
 CU+NI+CR+MO=.45% CB+V+TI=.11% TI/N
 RATIO 4.0 X REV 7/1/03 CE=.53% PER
 IIR FORMULA --- MILL TEST PCS SR
 1150F FOR 1HR/IN-1 HR MIN
 NO WELD REPAIR WAS PERFORMED ON BELOW PLATE(S)
 MFST - FRI TUE 7A/250P LIFT MAX 10 TON-SIZES & GRADES
 SEP UNLDG ON-PLATE MODE
 CD# 300-0721496 BH 821-1934D

W049406 (M55)MFST	813Y43930 2		7/16147	3/8	377	3/8	20703	67500	91500	8	21
W049407 (M55)MFST	813Y43930 3		7/16147	3/8	377	3/8	20703	68000	92500	8	21
W049408 (M55)MFST	813Y43930 1		7/16147	3/8	377	3/8	6901	68000	91000	8	19

NOTE	Q-QUENCH TEMPERATURE	T-TEMPERATURE	N-NORMALIZE TEMPERATURE
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SERIAL NUMBER	PAT. NO.	HEAT NUMBER	HARD	BEND	THICKNESS INCHES	TYPE	SIZE	DIR.	TEST TEMP	CHARPY IMPACT								
										ENERGY FT. LBS.			SHEAR (%)			LAT. EXP		
										1	2	3	1	2	3	1	2	3

HEAT NUMBER	CHEMICAL ANALYSIS																McQUAID GRAIN SIZE
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb	N	Sn	
813Y43930	.22	1.27	.013	.010	.331	.015	.01	.17	.061	.041	.002	.032	.0002	.002	.007	.002	

I CERTIFY THAT THE ABOVE RESULTS ARE A TRUE AND CORRECT COPY OF ACTUAL RESULTS CONTAINED IN RECORDS MAINTAINED BY MITTAL STEEL USA 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.

QUALITY MANAGER D.W. ELWOOD PER WIK

REPORT OF TESTS AND ANALYSES

BURNS HARBOR PLATE

SHIPMENT NO. 003-12349	DATE SHIPPED 08-15-07	CAR OR VEHICLE NO. GARY TFR	TRLR 9295	PAGE 1
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SOLD TO

UTLX MFG INC
300 151ST ST & RAILROAD AVE
EAST CHICAGO IN 46312

SHIP TO

UTLX MFG INC
300 151ST ST & RAILROAD AVE-D/W-125
EAST CHICAGO IN 46312

NOTE	SERIAL NUMBER	PAT. NO	HEAT NUMBER	SIZE AND QUANTITY					YIELD POINT	TENSILE STRENGTH	ELONG.		RED. %
				NO. PCS	THICKNESS	WIDTH OR DIA.	LENGTH	WEIGHT			IN	%	
				INCHES	INCHES	INCHES	FOUNDS	PSI	PSI	IN			

PRODUCED UNDER A CERTIFIED QMS COMPLYING WITH ISO 9002 ABS-DE CERT. #30477
QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - AAR TC128 GR B PVG (LPC-1149)
 CU+NI+CR+MO=.65% CB+V+TI=.11% TI/N
 RATIO 4.0 X REV 7/1/03 CE=.55% PER
 TIW FORMULA --- MILL TEST PCS SR
 1.150F FOR 1HR/IN 1 HR MIN
 NO WELD REPAIR WAS PERFORMED ON BELOW PLATE(S)
 MFST - FRI TUE 7A/230F LIFT MAX 10 TON-SIZES & GRADES
 SEP UNLDB ON-PLATE HOOK
 CDN 300-0721498 SH 821-1934C

W048149			013Y63910	3	7/16147	3/8	377	3/8	20703	66200	89100	8	18
(M55)MFST			REFN:129-6302										
W048150			013Y63910	3	7/16147	3/8	377	3/8	20703	67200	89500	8	17
(M55)MFST			REFN:129-6302										
W048151			013Y63910	1	7/16147	3/8	377	3/8	6901	68200	89700	8	17
(M55)MFST			REFN:129-6302										

NOTE	Q-QUENCH TEMPERATURE	T-TEMPER TEMPERATURE	N-NORMALIZE TEMPERATURE
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SERIAL NUMBER	PAT. NO	HEAT NUMBER	HARD	BEND	CHARPY IMPACT													
					THICKNESS	TYPE	SIZE	DIR.	TEST TEMP	ENERGY FT-LBS			SHEAR (%)			LAT. EXP		
					INCHES					1	2	3	1	2	3	1	2	3

HEAT NUMBER	CHEMICAL ANALYSIS														McQUAID GRAIN SIZE	
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb		N
013Y63910	.20	1.28	.010	.009	.341	.012	.01	.16	.058	.042	.002	.040	.0002	.002	.008	.002

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QUALITY MANAGER D.W. FLEMING PER WJK

REPORT OF TESTS AND ANALYSES

BURNS HARBOR PLATE

SHIPMENT NO. 803-11474	DATE SHIPPED 08-01-07	CAR OR VEHICLE NO. GARY TFR	TRLR 246	PAGE 1
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SOLD TO
UTLX MFG INC
300 151ST ST & RAILROAD AVE
EAST CHICAGO IN 46312

SHIP TO
UTLX MFG INC
300 151ST ST & RAILROAD AVE-D/W-125
EAST CHICAGO IN 46312

NOTE	SERIAL NUMBER	PAT. NO.	HEAT NUMBER	SIZE AND QUANTITY					YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG.		RED. %
				NO. PCS	THICKNESS INCHES	WIDTH OR DIA. INCHES	LENGTH INCHES	WEIGHT POUNDS			IN	%	

PRODUCED UNDER A CERTIFIED QMS COMPLYING WITH ISO 9002 AND THE CERT. #50477
QUALITY STEEL MELTED & MANUFACTURED IN THE U. S. A.

PLATES - AAR TC128 BR B PVD (CPC-1169)
 CU+NI+CR+MO=.25% CB+V+TI=.11% TI/N
 RATIO 4.0 X REV 7/1/03 CE=.55% PER
 IIW FORMULA --- MILL TEST PCS BR
 1150F FOR 1HR/IN 1 HR MIN
 NO WELD REPAIR WAS PERFORMED ON BELOW PLATE(S)
 MFST - FRI TUE 7A/230P LIFT MAX 10 TON-SIZES & GRADES
 SEP UNLDS OH-PLATE HOOD
 CON 300-0721498 OH 821-19344

W044070	171P04770	1	7/16147	3/8	377	3/8	6901	57900	81500	8	22
(M55)MFST	REF#:129-6302										
W044071	171P04770	2	7/16147	3/8	377	3/8	13802	58500	82600	8	22
(M55)MFST	REF#:129-6302										
W044072	172P22780	1	7/16147	3/8	377	3/8	6901	57300	81200	8	21
(M55)MFST	REF#:129-6302										
W044073	172P22780	3	7/16147	3/8	377	3/8	20703	58200	82400	8	23
(M55)MFST	REF#:129-6302										

NOTE	Q-QUENCH TEMPERATURE	T-TEMPERATURE	N-NORMALIZE TEMPERATURE
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SERIAL NUMBER	PAT. NO.	HEAT NUMBER	HARD	BEND	THICKNESS INCHES	TYPE	SIZE	DIR.	TEST TEMP	CHARPY IMPACT								
										ENERGY FT. LBS.			SHEAR (%)			LAT. EXP MILS		
										1	2	3	1	2	3	1	2	3

HEAT NUMBER	CHEMICAL ANALYSIS																	McQUAID GRAIN SIZE
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb	N	Sn		
171P04770	.21	1.24	.011	.006	.354	.020	.02	.15	.039	.028	.003	.026	.0001	.002	.005	.008		
172P22780	.20	1.21	.004	.006	.332	.012	.01	.15	.036	.026	.002	.044	.0001	.001	.005	.003		

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300 151ST ST & RAILROAD AVE
EAST CHICAGO IN 46312

SHIP TO
UTLX MFG INC
300 151ST ST & RAILROAD AVE-D/W-125
EAST CHICAGO IN 46312

NOTE	SERIAL NUMBER	PAT. NO.	HEAT NUMBER	SIZE AND QUANTITY					YIELD POINT PSI	TENSILE STRENGTH PSI	ELONG.		RED. %
				NO. PCS	THICKNESS INCHES	WIDTH OR DIA. INCHES	LENGTH INCHES	WEIGHT POUNDS			IN	%	

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

PLATES - AAR TC128 BR B PVD (CPC-1169)
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 SEP UNLDS OH-PLATE HOOD
 CON 300-0721498 OH 821-19344

W044070	171P04770	1	7/16147	3/8	377	3/8	6901	57900	81500	8	22
(M55)MFST	REF#:129-6302										
W044071	171P04770	2	7/16147	3/8	377	3/8	13802	58500	82600	8	22
(M55)MFST	REF#:129-6302										
W044072	172P22780	1	7/16147	3/8	377	3/8	6901	57300	81200	8	21
(M55)MFST	REF#:129-6302										
W044073	172P22780	3	7/16147	3/8	377	3/8	20703	58200	82400	8	23
(M55)MFST	REF#:129-6302										

NOTE	Q-QUENCH TEMPERATURE	T-TEMPERATURE	N-NORMALIZE TEMPERATURE
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SERIAL NUMBER	PAT. NO.	HEAT NUMBER	HARD	BEND	THICKNESS INCHES	TYPE	SIZE	DIR.	TEST TEMP	CHARPY IMPACT								
										ENERGY FT. LBS.			SHEAR (%)			LAT. EXP MILS		
										1	2	3	1	2	3	1	2	3

HEAT NUMBER	CHEMICAL ANALYSIS																	McQUAID GRAIN SIZE
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	B	Cb	N	Sn		
171P04770	.21	1.24	.011	.006	.354	.020	.02	.15	.039	.028	.003	.026	.0001	.002	.005	.008		
172P22780	.20	1.21	.004	.006	.332	.012	.01	.15	.036	.026	.002	.044	.0001	.001	.005	.003		

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