



NUCOR STEEL TUSCALOOSA, INC.

MILL TEST CERTIFICATE

1700 HOLT RD N.E.
Tuscaloosa, AL 35404-1000
800 800-8204
customerservice@nucortusk.com

Load Number	Tally	Mill Order Number	PO NO Line NO	Part Number	Certificate Number	Prepared
B155311	00000000730850	N-155824-008	14081 8		S73085001-1	06/04/2017 05:19

Grade	Customer:
Order Description: Hot Roll Plate From Coil A36, 0.2500 IN x 96.000 IN x 240.000 IN	Sold TO:
Quality Plan Description: A36MODMN20C: ASTM A36-14 MOD MN/A709-36/SA36 MOD C .20 MAX	Ship TO:
	Sent TO:

Shipped Item	Heat/Slab Number	Certified By	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb	V	Al	Ti	N2	B	Ca	Sn	CEV	ACI
7E2945B	B7S4672-01 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2945C	B7S4672-01 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2945D	B7S4672-01 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2946B	B7S4672-02 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2946C	B7S4672-02 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2946D	B7S4672-02 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2947B	B7S4672-03 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2947C	B7S4672-03 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2947D	B7S4672-03 ***	B7S4672	0.19	0.89	0.018	0.003	0.06	0.20	0.07	0.10	0.027	0.000	0.004	0.027	0.001	0.007	0.0001	0.0017			
7E2949B	A7S2209-01 ***	A7S2209	0.19	0.88	0.016	0.007	0.06	0.20	0.07	0.07	0.026	0.000	0.004	0.032	0.001	0.010	0.0001	0.0013			
7E2949C	A7S2209-01 ***	A7S2209	0.19	0.88	0.016	0.007	0.06	0.20	0.07	0.07	0.026	0.000	0.004	0.032	0.001	0.010	0.0001	0.0013			
7E2949D	A7S2209-01 ***	A7S2209	0.19	0.88	0.016	0.007	0.06	0.20	0.07	0.07	0.026	0.000	0.004	0.032	0.001	0.010	0.0001	0.0013			
7E2952B	B7S4673-02 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2952C	B7S4673-02 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2953B	B7S4673-01 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2953C	B7S4673-01 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2954B	B7S4673-03 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2954C	B7S4673-03 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			

Ranger Steel
QC Approved

Mercury has not come in contact with this product during the manufacturing process nor has any mercury been used by the manufacturing process. Certified in accordance with EN 10204 3.1. No weld repair has been performed on this material. Manufactured to a fully killed fine grain practice. NUTEMPER TEMPER PASSED plate from coil
ISO 9001:2015 Registered, PED Certified

We hereby certify that the product described above passed all of the tests required by the specifications.

Dr. Quilin Yu - Metallurgist

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7E2954D	B7S4673-03 ***	B7S4673	0.20	0.85	0.020	0.008	0.05	0.19	0.08	0.11	0.027	0.000	0.004	0.029	0.001	0.008	0.0000	0.0017			
7E2955B	A7S2210-01 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2955C	A7S2210-01 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2955D	A7S2210-01 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2956B	A7S2210-02 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2956C	A7S2210-02 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2956D	A7S2210-02 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			
7E2957B	A7S2210-03 ***	A7S2210	0.18	0.86	0.017	0.004	0.06	0.19	0.07	0.08	0.025	0.000	0.004	0.026	0.001	0.010	0.0001	0.0012			

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Shipped Item	Certified By	Heat/Slab Number	Yield ksi	Tensile ksi	Y/T %	ELONGATION %		Bend OK?	Hard HB	Charpy Impacts (ft-lbs)				Shear %				Test Temp	
						2"	8"			Size mm	1	2	3	Avg	1	2	3		Avg
7E2945B	S7E2945FTT	B7S4672-01 ***	56.6	76.6	73.9	24.9													
7E2945B	S7E2945MTT	B7S4672-01 ***	58.8	75.3	78.1	26.0													
7E2945C	S7E2945FTT	B7S4672-01 ***	56.6	76.6	73.9	24.9													
7E2945C	S7E2945MTT	B7S4672-01 ***	58.8	75.3	78.1	26.0													
7E2945D	S7E2945FTT	B7S4672-01 ***	56.6	76.6	73.9	24.9													
7E2945D	S7E2945MTT	B7S4672-01 ***	58.8	75.3	78.1	26.0													
7E2946B	S7E2946FTT	B7S4672-02 ***	56.0	76.3	73.4	30.1													
7E2946B	S7E2946MTT	B7S4672-02 ***	58.4	74.8	78.1	27.8													
7E2946C	S7E2946FTT	B7S4672-02 ***	56.0	76.3	73.4	30.1													
7E2946C	S7E2946MTT	B7S4672-02 ***	58.4	74.8	78.1	27.8													
7E2946D	S7E2946FTT	B7S4672-02 ***	56.0	76.3	73.4	30.1													
7E2946D	S7E2946MTT	B7S4672-02 ***	58.4	74.8	78.1	27.8													
7E2947B	S7E2945FTT	B7S4672-03 ***	56.6	76.6	73.9	24.9													
7E2947B	S7E2946FTT	B7S4672-03 ***	56.0	76.3	73.4	30.1													
7E2947B	S7E2945MTT	B7S4672-03 ***	58.8	75.3	78.1	26.0													
7E2947B	S7E2946MTT	B7S4672-03 ***	58.4	74.8	78.1	27.8													
7E2947C	S7E2945FTT	B7S4672-03 ***	56.6	76.6	73.9	24.9													
7E2947C	S7E2946FTT	B7S4672-03 ***	56.0	76.3	73.4	30.1													
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						2"	8"			Size mm	1	2	3	Avg	1	2	3		Avg
7E2947C	S7E2946MTT	B7S4672-03 ***	58.4	74.8	78.1	27.8													
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7E2949B	S7E2949FTT	A7S2209-01 ***	49.1	71.3	68.9	30.0													
7E2949B	S7E2949MTT	A7S2209-01 ***	52.7	68.7	76.7	28.1													
7E2949C	S7E2949FTT	A7S2209-01 ***	49.1	71.3	68.9	30.0													
7E2949C	S7E2949MTT	A7S2209-01 ***	52.7	68.7	76.7	28.1													
7E2949D	S7E2949FTT	A7S2209-01 ***	49.1	71.3	68.9	30.0													
7E2949D	S7E2949MTT	A7S2209-01 ***	52.7	68.7	76.7	28.1													
7E2952B	S7E2952FTT	B7S4673-02 ***	52.4	73.1	71.7	29.3													
7E2952B	S7E2952MTT	B7S4673-02 ***	53.2	71.3	74.6	28.5													
7E2952C	S7E2952FTT	B7S4673-02 ***	52.4	73.1	71.7	29.3													
7E2952C	S7E2952MTT	B7S4673-02 ***	53.2	71.3	74.6	28.5													
7E2953B	S7E2953FTT	B7S4673-01 ***	52.6	74.1	71.0	30.0													
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Shipped Item	Certified By	Heat/Slab Number	Yield ksi	Tensile ksi	Y/T %	ELONGATION %		Bend OK?	Hard HB	Charpy Impacts (ft-lbs)				Shear %				Test Temp	
						2"	8"			Size mm	1	2	3	Avg	1	2	3		Avg
7E2954B	S7E2952FTT	B7S4673-03 ***	52.4	73.1	71.7	29.3													
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7E2956B	S7E2956FTT	A7S2210-02 ***	52.8	72.1	73.2	30.2													

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7E2957B	S7E2955FTT	A7S2210-03 ***	51.4	70.3	73.1	30.0													
7E2957B	S7E2956FTT	A7S2210-03 ***	52.8	72.1	73.2	30.2													
7E2957B	S7E2955MTT	A7S2210-03 ***	52.7	68.6	76.8	27.7													
7E2957B	S7E2956MTT	A7S2210-03 ***	53.7	69.8	76.9	30.5													

Items: 26 PCS: 472 Weight: 771012 LBS

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CUSTOMER	DATE OF ISSUED 03.04.2018	PAGE 1	WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY.
ADDRESS			
PRODUCT STECKEL PLATE			ING. RAMIRO CISNEROS MENCHACA MECHANICAL TESTS AND CERTIFICATION

CHEMICAL COMPOSITION															
HEAT	SPECIFICATION	C	Mn	P	S	Si	Cu	Cr	Ni	Mo	Alt	V	Cb	Ti	
182613	ASTM A36/ASME SA36 ED15	0.180	0.810	0.010	0.004	0.120	0.014	0.015	0.012	0.003	0.046	0.002	0.002	0.002	
182614	ASTM A36/ASME SA36 ED15	0.170	0.840	0.023	0.005	0.120	0.027	0.022	0.016	0.004	0.037	0.004	0.002	0.002	
HEAT	B														
182613	0.0002														
182614	0.0003														

TEST OF THE PRODUCT							
HEAT	SLAB	PLATE NO.	THICKNESS (Inch)	Y. STRENGTH	T. STRENGTH	%ELON.	T. ELONG.
182613	7020	7652019001	0.3750	46.374 (KSI)	68.424 (KSI)	25 (%)	8
182613	7030	7644030001	0.2500	45.804 (KSI)	69.094 (KSI)	27 (%)	8
182613	7060	7640032001	0.2500	51.284 (KSI)	71.901 (KSI)	26 (%)	8
182614	7020	7644034001	0.2500	49.878 (KSI)	69.362 (KSI)	26 (%)	8
182614	7030	7644033001	0.2500	46.470 (KSI)	69.056 (KSI)	28 (%)	8

SHIPPED PRODUCT								
HEAT	PLANCHON	PLATE NO.	THICKNESS (Inch)	WIDTH (Inch)	LARGE (Inch)	ORDER	ITEM	DELIVERY
182613	7030	7644030025	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030026	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030027	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030028	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030029	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030031	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7030	7644030032	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031001	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031002	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031003	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031004	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031005	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031007	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031008	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031009	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031010	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031011	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031012	0.2500	96.0000	240.0000	0000214429	000010	1002625749

ISSUED : S118542



CUSTOMER	DATE OF ISSUED 03.04.2018	PAGE 2	WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY.
ADDRESS			
PRODUCT STECKEL PLATE			ING. RAMIRO CISNEROS MENCHACA MECHANICAL TESTS AND CERTIFICATION

+-----SHIPPED PRODUCT-----+								
HEAT	PLANCHON	PLATE NO.	THICKNESS (Inch)	WIDTH (Inch)	LARGE (Inch)	ORDER	ITEM	DELIVERY
182613	7040	7644031015	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031016	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031017	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182613	7040	7644031018	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182614	7030	7644033015	0.2500	96.0000	240.0000	0000214429	000010	1002625749
182614	7030	7644033016	0.2500	96.0000	240.0000	0000214429	000010	1002625749
HEAT	PLANCHON	PLATE NO.	CUSTOMER ORD.					
182613	7030	7644030025	AHI5472 (V13979) /ABR1					
182613	7030	7644030026	AHI5472 (V13979) /ABR1					
182613	7030	7644030027	AHI5472 (V13979) /ABR1					
182613	7030	7644030028	AHI5472 (V13979) /ABR1					
182613	7030	7644030029	AHI5472 (V13979) /ABR1					
182613	7030	7644030031	AHI5472 (V13979) /ABR1					
182613	7030	7644030032	AHI5472 (V13979) /ABR1					
182613	7040	7644031001	AHI5472 (V13979) /ABR1					
182613	7040	7644031002	AHI5472 (V13979) /ABR1					
182613	7040	7644031003	AHI5472 (V13979) /ABR1					
182613	7040	7644031004	AHI5472 (V13979) /ABR1					
182613	7040	7644031005	AHI5472 (V13979) /ABR1					
182613	7040	7644031007	AHI5472 (V13979) /ABR1					
182613	7040	7644031008	AHI5472 (V13979) /ABR1					
182613	7040	7644031009	AHI5472 (V13979) /ABR1					
182613	7040	7644031010	AHI5472 (V13979) /ABR1					
182613	7040	7644031011	AHI5472 (V13979) /ABR1					
182613	7040	7644031012	AHI5472 (V13979) /ABR1					
182613	7040	7644031015	AHI5472 (V13979) /ABR1					
182613	7040	7644031016	AHI5472 (V13979) /ABR1					
182613	7040	7644031017	AHI5472 (V13979) /ABR1					
182613	7040	7644031018	AHI5472 (V13979) /ABR1					
182614	7030	7644033015	AHI5472 (V13979) /ABR1					
182614	7030	7644033016	AHI5472 (V13979) /ABR1					

All heats and sizes are fully aluminum killed with fine grain practice.

ISSUED : S118542



ALTOS HORNOS DE MEXICO

MILL TEST CERTIFICATE AHMSA: QUALITY WITH THE STRENGTH OF STEEL
PROLONGACION JUAREZ SIN NUMERO COLONIA LA LOMA MONCLOVA COAHUILA 25770

B151974B


CUSTOMER	DATE OF ISSUED 03.04.2018	PAGE 3	WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY.
ADDRESS			 ING. RAMIRO CISNEROS MENCHACA MECHANICAL TESTS AND CERTIFICATION
PRODUCT STECKEL PLATE			
<p>DIN EN10204 3.1 Compliant.</p> <p>ACCORDING TO STANDAR: ASTM A36/ASME SA36/A709-36</p> <p>COUNTRY OF ORIGIN: MÉXICO</p> <p style="text-align: center;">-----+----- END OF DATA -----+-----</p>			
AHMSA'S COMPROMISE IS ONLY WITH THE CUSTOMER MENTIONED IN THIS CERTIFICATE, AHMSA WILL ONLY ACCEPT THE ORIGINAL DOCUMENT.			ISSUED : S118542



Table with 3 columns: CUSTOMER, DATE OF ISSUED (10.12.2018), PAGE (1). Includes address and product (STECKEL PLATE) information. Signature of ING. RAMIRO CISNEROS MENCHACA.

CHEMICAL COMPOSITION table with columns: HEAT, SPECIFICATION, C, Mn, P, S, Si, Cu, Cr, Ni, Mo, Alt, V, Cb, Ti. Rows for heats 189099 and 189100.

TEST OF THE PRODUCT table with columns: HEAT, SLAB, PLATE NO., THICKNESS (Inch), Y. STRENGTH, T. STRENGTH, %ELON., T. ELONG. Rows for heats 189099 and 189100.

SHIPPED PRODUCT table with columns: HEAT, PLANCHON, PLATE NO., THICKNESS (Inch), WIDTH (Inch), LARGE (Inch), ORDER, ITEM, DELIVERY. Includes a sub-section for CUSTOMER ORD. and WEIGHT (t).

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CUSTOMER	DATE OF ISSUED 10.12.2018	PAGE 2	WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY. ING. RAMIRO CISNEROS MENCHACA MECHANICAL TESTS AND CERTIFICATION
ADDRESS			
PRODUCT STECKEL PLATE			

SHIPPED PRODUCT				
HEAT	PLANCHON	PLATE NO.	CUSTOMER ORD.	WEIGHT (t)
189100	7060	9002035004	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035005	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035006	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035013	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035014	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035015	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035016	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035017	AHI5850 (V15474) /OCT1	0.740
189100	7060	9002035018	AHI5850 (V15474) /OCT1	0.740

All heats and sizes are fully aluminum killed with fine grain parctice.
DIN EN10204 3.1 Compliant

According to ASTM A36/ASME SA36/A709-36
COUNTRY OF ORIGIN: MÉXICO

END OF DATA



Table with columns: CUSTOMER, ADDRESS, PRODUCT, DATE OF ISSUED, PAGE, WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY. Includes signature of ING. RAMIRO CISNEROS MENCHACA.

CHEMICAL COMPOSITION table with columns: HEAT, SPECIFICATION, C, Mn, P, S, Si, Cu, Cr, Ni, Mo, Alt, V, Cb, Ti. Includes data for HEAT 289754.

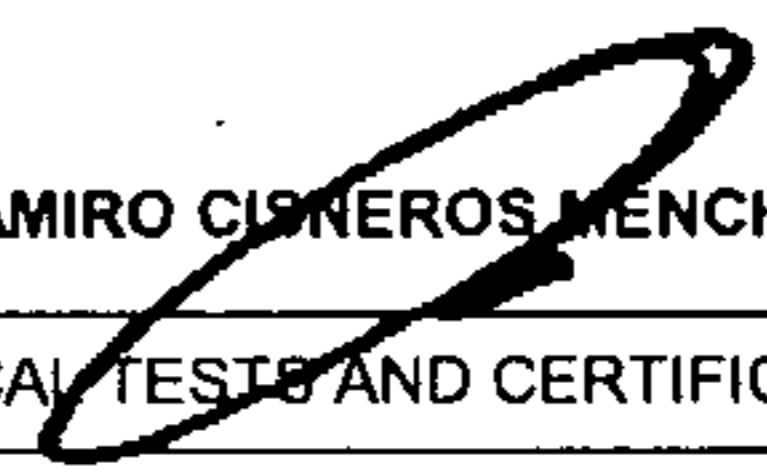
TEST OF THE PRODUCT table with columns: HEAT, SLAB, PLATE NO., THICKNESS (Inch), Y. STRENGTH, T. STRENGTH, %ELON., T. ELONG. Includes data for various heat numbers and plate specifications.

SHIPPED PRODUCT table with columns: HEAT, PLANCHON, PLATE NO., THICKNESS (Inch), WIDTH (Inch), LARGE (Inch), ORDER, ITEM, DELIVERY. Includes data for multiple heat numbers and plate specifications.

Table with columns: HEAT, PLANCHON, PLATE NO., CUSTOMER ORD., WEIGHT (t). Includes data for heat numbers and customer orders.

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CUSTOMER	DATE OF ISSUED 14.12.2018	PAGE 2	WE HEREBY CERTIFY THAT CHEMICAL AND / OR TEST SHOW IN THIS REPORT ARE CORRECT AS CONTAINED THE RECORDS OF THE COMPANY.
ADDRESS			 ING. RAMIRO CISNEROS MENCHACA MECHANICAL TESTS AND CERTIFICATION
PRODUCT STECKEL PLATE			

SHIPPED PRODUCT				
HEAT	PLANCHON	PLATE NO.	CUSTOMER ORD.	WEIGHT (t)
289754	7050	9034037009	AHI5850 (V15474) /OCT1	0.741
289754	7050	9034037010	AHI5850 (V15474) /OCT1	0.741
289754	7050	9034037011	AHI5850 (V15474) /OCT1	0.741
289754	7050	9034037012	AHI5850 (V15474) /OCT1	0.741

All heats and sizes are fully aluminum killed with fine grain parctice.
DIN EN10204 3.1 Compliant

According to ASTM A36/ASME SA36/A709-36
COUNTRY OF ORIGIN: MÉXICO

END OF DATA

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