

NUCOR
PLATE MILL

P.O. Box 279
Winston, NC 27986
(252) 356-3700

Mill Test Report

Page 1

1505 River Rd
Cortland, NC 27922
(252) 356-3700

NUCOR
PLATE MILL

Issuing Date: 06/28/2020

BL No.: 000000

Load No.: 000000

Our Order No.: 000000

Client Order No.: 000000

Vehicle No: 000000

Sold To: 000000

Ship To: 000000

Specification: 0.3750" x 120.000" x 480.000"

ASTM A36-19/AS Grade A 2019/ASME SA36 2019/2017 ASTM A709

Grade 36-18/ASTM A131-19 Grade A

Marking:

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Alloy	V	Nb	Ti	N	Ca	B	Sn	Ceq	Pcm
0603940	0.06	0.64	0.011	0.001	0.27	0.19	0.09	0.08	0.02	0.021	0.004	0.002	0.002		0.0021	0.0002	0.013	0.24	0.13
Tensile Test																			
Plate Serial No	Pieces	Tons	Dr. Yield	(psi)	(ksi)	Elong. 1/2 in 2	Elong. 2 in 8												
4	12.25	T	46,400	62,100			31.9												
		T	46,200	61,900			31.2												
3	9.18	T	46,400	62,100			31.9												
		T	46,200	61,900			31.2												



1. Vehicle
#352670
592 Y6820

Manufactured to fully listed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material. Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate as-cast. Unless otherwise noted in Specification, For Mexico shipments: c-Sale@nucor.com
Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V/5)+(Cu+Ni/15)
Pcm = C+Si/20+(Mn/20)+(Cu/20)+(Nb/10)+(V/10)+(Ti/10)+B
Metel and Manufactured in the USA. ISO 9001:2015 certified. PED 87/23/EC 7/2 Annex 1, Part 4.3 Compliant.
EN 10040 3.1/EN 10204 3.1B/2004, DIN EN 10204 3.1(2005) compliant. For ABS grades only. Quality Assurance certificate QA-3624366

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

T. A. Deprell, Metallurgist

6/29/2020 11:22:17 AM

Issuing Date :	08/05/2020	B/L No. :	SETH681	Load No. :	000139	Our Order No. :	7874712	Cust. Order No. :	7874712
Vehicle No:	LW 5000	Sold To:	ALUMINUM METALS CORP 200 WILSON BLVD MONTREAL, QC H3T 2G6 CANADA				Ship To:	ALUMINUM METALS CORP 200 WILSON BLVD MONTREAL, QC H3T 2G6 CANADA	
Specification:	0.3750" x 96.000" x 480.000" ASTM A36-19/ABS Grade A 2020/ASME SA36 2019/2017 ASTM A709 Grade 36-18/ASTM A131-18 Grade A								

Plate Serial No: 000000-000000

Marking :

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al(tot)	V	Nb	Ti	N	Ca	B	Sn	Ceq	Pcm
0604505	0.06	0.83	0.008	0.002	0.31	0.15	0.08	0.06	0.02	0.031	0.004	0.002	0.002		0.0020	0.0000	0.008	0.23	0.12

Plate Serial No	Pieces	Tons	Tensile Test			
			Dir Yield	(psi) Tensile	Elong % in 2"	Elong % in 8"
1000000-08	1	2.45	T	43,800	61,100	30.3
			T	47,200	62,200	31.1

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material. Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate as rolled, unless otherwise noted in Specification. For Mexico shipments:nbc-SalesMX@nucor.com
Yield by 0.5EUL method unless otherwise specified. $Ceq = C + (Mn/8) + ((Cr + Mo + V)/5) + ((Cu + Ni)/15)$

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

Perç = $C + (Si/30) + (Mn/20) + (Cr/20) - (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 58$
 Melting and Manufactured in the USA. ISO 9001:2015 certified. PED 97/23/EC 72 Annex 1, Para. 4.3 Compliant.
 DIN 50049 3.1.B/EN 10204 3.1B(2004), DIN EN 10204 3.1(2005) compliant. For ABS grades only. Quality Assurance certificate QA-3624366

T. A. Depretis
T. A. Depretis, Metallurgist

8/5/2020 1:32:22 PM

SSAB

Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, US

Customer:

Customer P.O. No.:

Mill Order No.:

Form TQ1: Revision 4: Date 6 Feb 2019

Product Description: ABS (2020) GRA
ASTM A36(19)/A709(1) 839/ASME SA36(19)
MN 0.80% - 1.20%
AASHTO M270(19)36

Ship Date: 12 Aug 20
Cert Date: 12 Aug 20
(Page 1 of 1)

Shipping Manifest: 77777777

Size: 0.375 X 96.00 X 480.0 (IN)

Tested Pieces:

Tensiles:

Charpy Impact Tests

Chemical Analysis																	Charpy Impact Tests				
Heat	Piece	Tested	Loc	YS	UTS	%RA	Elong %	Tst	Hardness	Abs. Energy(FITB)			% Shear			Tst	Tst	Tst	BDWTT		
Id	Id	Thickness		(KSI)	(KSI)		2in	8in	Dir		1	2	3	Avg	Temp	Dir	Dir	Dir	Temp %Shr		
EOG293	B18	0.361 (DISCMT)	L 51	71	72	38	1	1													
EOG298	B69	0.361 (DISCMT)	L 55	72	36	1	1														
Heat																					
Id	C	Mn	P	S	Si	Ti Al	Cu	Ni	Cr	Mo	Co	V	Ti	Cav	ORIGIN						
EOG293		.18	.82	.011	.002	.07	.046	.25	.13	.13	.04	.004	.018	.31	USA						
EOG298		.17	.82	.008	<.001	.06	.042	.28	.14	.14	.04	.005	.003	.31	USA						
FILLED STEEL																					

Chemical Analysis

Heat	C	Mn	P	S	SI	Tot Al	Cu	Ni	Cr	Mo	Co	V	Ti	Ceq	ORGN
Id															USA
EOG293	.18	.82	.011	.002	.07	.046	.25	.13	.13	.04	.005	.004	.018	.31	USA
EOG298	.17	.82	.009	<.001	.06	.042	.28	.14	.14	.04	.005	.003	.015	.31	USA

KILLED STEEL.
MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY SSAB AMERICAS BY THE ELECTRIC FURNACE / STRAND CAST PROCESS AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS.
CEV = C + Mn/6
MIR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
100% WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
PRODUCTS SHIPPED:

EOG293 B19 PCS: 7, LBS: 34307 EOG298 B69 PCS: 1, LBS: 4901



4403293 21AUG2020

Just Ward

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION SENIOR METALLURGIST PRODUCT

Justin Ward 08/12/2020