

LFO0017 (Aceros de grado)
CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.
 All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

DATE	7/02/11
INVOICE NO.	420067
BILL OF LADING	29819
CUSTOMER NO.	4829
CUSTOMER P.O.	4500078551

NUCOR-YAMATO STEEL CO.
 P.O. BOX 1228 • BLYTHEVILLE, AR 72316

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ACEROS DE GRADO C/O GULF STREAM MAR
 PORT OF BROWNSVILLE
 BROWNSVILLE, TX

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ASTM A992/A992M-06a A572/A572M GR50-0/
 ASTM A709/A709M-09 GR50 (345)
 ASTM A109/A109M-09 GR50S (345S)
 ASTM A616/A616M-09

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ACEROS DE GRADO, SA DE CV
 AV FELIX U GOMEZ 2828 NTE COL MODER
 RFC AGR0811241V9
 MONTERREY, NL CP 64530

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES						CHEMICAL PROPERTIES											
				YIELD TO TENSILE RATIO	YIELD STRENGTH	TENSILE STRENGTH	ELONG	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE
					PSI	PSI		° F	FT-LBS												
					MPa	MPa		° C	JOULES												
1	W12 - 53.0 40' W310 x 79.0 12.192 M	27	368068	.76	54000	71000	25			.08	1.00	.018	.026	.25	.34	.13	.18	.04	.00	.013	.32
2	W12 - 53.0 40' W310 x 79.0 12.192 M	13	368070	.74	54000	73000	24			.08	1.08	.019	.028	.30	.36	.13	.19	.04	.00	.015	.34
3	W12 - 53.0 40' W310 x 79.0 12.192 M	14	368072	.73	53000	73000	25			.08	1.05	.016	.023	.21	.33	.12	.18	.04	.00	.016	.33
4	W12 - 65.0 40' W310 x 97.0 12.192 M	2	367716	.80	57000	71000	26			.07	1.01	.016	.026	.24	.37	.10	.12	.03	.00	.020	.30
5	W12 - 65.0 40' W310 x 97.0 12.192 M	18	367728	.77	55000	71000	27			.07	1.00	.017	.022	.22	.39	.10	.10	.03	.00	.021	.30
6	W12 - 65.0 40' W310 x 97.0 12.192 M	55	367730	.82	59000	72000	27			.07	1.00	.019	.024	.21	.39	.10	.10	.03	.00	.018	.30
7	W12 - 65.0 40' W310 x 97.0 12.192 M	61	367732	.79	57000	72000	26			.07	1.00	.017	.024	.22	.42	.10	.09	.03	.00	.019	.29
8	W12 - 65.0 40' W310 x 97.0 12.192 M	3	367736	.79	56000	71000	27			.07	1.00	.016	.026	.20	.35	.11	.09	.03	.00	.018	.29
9	W12 - 65.0 40' W310 x 97.0 12.192 M	1	367740	.78	57000	73000	27			.07	1.00	.016	.020	.26	.37	.10	.09	.03	.00	.019	.29

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

Gay Lennell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME

5 Day of 07/11

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2011

