

LF0001AC

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	8/15/11
INVOICE NO	428244
BILL OF LADING	34796
CUSTOMER NO.	0829
CUSTOMER P.O.	4500079733

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

S H I P T O
FORTACERO C/O GULF STREAM MARINE
PORT OF BROWNSVILLE

BROWNSVILLE, TX

S P E C I F I C A T I O N S
ASTM A992/A992M-06a A572/A572M GR50-07
ASTM A709/A709M-09 GR50 (345)
ASTM A709/A709M-09 GR50 (345S)
ASTM A6/A6M-09

S O L D T O
FORTACERO S.A. DE CV
BLVD CARLOS SALINAS DE GORTARI
KM 8.8
APODACA, N.L. MEXICO 66600

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		
								TEMP	IMPACT ENERGY													
								*F	FT-LBS													
	MPa	MPa	%	*C	JOULES										Sn	Pcm		Cl				
1	W16 - 31.0	1	364727	.78	52000	67000	27				.08	.70	.017	.027	.23	.28	.10	.11	.03	.007	.26	
	40'			.78	52000	67000	26										.01	.15				
	W410 x 46.1					359	462	27														
	12.192 M					359	462	26														
2	W16 - 31.0	4	364729	.80	53000	66000	26				.07	.70	.016	.031	.22	.30	.12	.11	.03	.00	.012	
	40'			.84	56000	67000	26												.01	.14		
	W410 x 46.1					365	455	26														
	12.192 M					386	462	26														
3	W16 - 31.0	6	369922	.77	50000	65000	25				.08	.75	.011	.028	.17	.28	.12	.07	.03	.00	.007	.26
	40'			.77	50000	65000	26												.01	.15		
	W410 x 46.1					345	448	25														
	12.192 M					345	448	26														
4	W16 - 31.0	11	369925	.77	51000	66000	26				.08	.75	.012	.032	.22	.28	.11	.08				
	40'			.76	50000	66000	26															
	W410 x 46.1					352	455	26														
	12.192 M					345	455	26														
5	W16 - 31.0	13	369929	.77	51000	66000	24				.08	.76	.016	.030	.20	.34	.11	.11	.03	.00	.009	
	40'			.79	52000	66000	26												.01	.15		
	W410 x 46.1					352	455	24														
	12.192 M					359	455	26														
6	W16 - 31.0	1	369931	.78	52000	67000	23				.08	.75	.015	.031	.20	.30	.13	.13	.04	.00	.007	
	40'			.79	53000	67000	25												.01	.15		
	W410 x 46.1					359	462	23														
	12.192 M					365	462	25														
7	W16 - 31.0	4	369937	.79	53000	67000	24				.08	.76	.020	.032	.21	.28	.11	.14	.03	.00	.008	
	40'			.79	52000	66000	25												.01	.15		
	W410 x 46.1					365	462	24														
	12.192 M					359	455	25														
8	W16 - 31.0	2	369941	.78	52000	67000	26				.08	.75	.013	.030	.16	.26	.10	.14	.03	.00	.007	
	40'			.79	52000	66000	26												.01	.15		
	W410 x 46.1					359	462	26														
	12.192 M					359	455	26														
9	W16 - 31.0	5	369942	.78	52000	67000	24				.09	.77	.023	.028	.23	.30	.11	.16	.03	.01	.009	.29
	40'			.78	52000	67000	24												.01	.17		
	W410 x 46.1					359	462	24														
	12.192 M					359	462	24														

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.

Doug Linnell
QUALITY ASSURANCE
CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
15 Day of 08/11
Charlene Wallis NOTARY PUBLIC
MY COMMISSION EXPIRES 10/21/2011

