

NUCOR-YAMATO STEEL CO.

P O BOX 1228
 BLYTHEVILLE AR 72316

DATE
 7/19/06

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.

SOLD TO

FERRE BARNIEDO, S.A. DE C.V.
 AV REVOLUCION NO 81
 SAN CRISTOBAL ECATEPEC
 EDO DE MEXICO 55000

SHIP TO

FERRE BARNIEDO C/O TAF FORWARDING
 1207 UNIROVAL DRIVE
 FINAL: SAN LUIS POTOSI, SLP MX
 LAREDO, TX

INVOICE
 60683
 BILL OF LADING
 795523

CUSTOMER NO.
 5446
 CUSTOMER P.O.
 FERRE 5/9/06

9051

2 **SPECIFICATIONS GRADE:** ASTM A992/A992M-04a A572/A572M GR50-04 ASTM A709/A709M-03a GR50 (345)
 ASTM A709/A709M-03a GR50s (345S) ASTM A6/A6M-05a

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES						CHEMICAL PROPERTIES													
				YIELD TO TENSILE RATIO	YIELD STRENGTH F _y MPa	TENSILE STRENGTH F _t MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE		
								TEMP F	IMPACT ENERGY FT-LBS IOULLES														
1	W14 -159.0 40' IP1416237I	2	277341	.74	55000	74000	24					.081	.33	.019	.021	.24	.30	.10	.09	.03	.00	.018	.35
	W360 x237.0 12.192 M			.74	55000	74000	24													.01	.18		
2	W14 -193.0 40' IP1416287I	1	277548	.74	53000	72000	26					.071	.32	.022	.015	.25	.32	.10	.15	.03	.00	.019	.36
	W360 x287.0 12.192 M			.75	55000	73000	28													.01	.18		
3	W14 -193.0 40'	1	277550	.74	53000	72000	27					.071	.30	.020	.025	.23	.32	.10	.14	.03	.00	.019	.35
	W360 x287.0 12.192 M			.73	53000	73000	27													.01	.18		
4	W14 -233.0 40' IP1416347I	1	277631	.75	53000	71000	26					.071	.30	.021	.018	.22	.29	.11	.12	.03	.04	.002	.36
	W360 x347.0 12.192 M			.75	53000	71000	27													.01	.17		
5	W14 -233.0 40'	5	278041	.77	57000	74000	26					.071	.30	.020	.017	.23	.34	.11	.14	.03	.05	.001	.36
	W360 x347.0 12.192 M			.76	57000	75000	25													.01	.19		
6	W14 -233.0 40'	3	278297	.75	55000	73000	27					.091	.34	.019	.019	.24	.32	.11	.10	.04	.04	.002	.38
	W360 x347.0 12.192 M			.77	58000	75000	25													.01	.20		
7	W14 -233.0 40'	3	278314	.77	53000	69000	26					.061	.32	.018	.019	.24	.32	.10	.07	.03	.04	.002	.34
	W360 x347.0 12.192 M			.77	54000	70000	27													.01	.16		
8	W14 -233.0 40'	3	278316	.76	53000	70000	28					.071	.32	.019	.018	.24	.31	.11	.08	.03	.04	.002	.35
	W360 x347.0 12.192 M			.76	53000	70000	27													.01	.17		

FERRE BARNIEDO, S.A. DE C.V.
ESTE CERTIFICADO ES COPIA FIEL DEL ORIGINAL DE NUESTROS ARCHIVOS.

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH
 P_{cm} = C + Si / 30 + Mn / 20 + Cu / 20 + Ni / 60 + Cr / 20 + Mo / 15 + V / 10 + 5B D-Approx .0005
 Corrosion Index: CI = 26.01(%Cu) + 3.88(%Ni) + 1.2(%Cr) + 1.49(%Si) + 17.28(%P) - 7.29(%Cu)(%Ni) - 9.10(%Ni)(%P) - 33.39(%Cu)²
 CARBON EQUIVALENT CE = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15

I hereby certify that the contents of this report are true and correct. All test results and operations performed by this national manufacturer are in compliance with the requirements of the pertinent specifications, and when designated by the purchaser, meet the applicable specifications.

STATE OF ARKANSAS
 COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME THIS
 Day of
 GARY PENNELL
 QUALITY ASSURANCE
 TEL. 58-36-10-00 ventas@ferrebarniedo.com.mx

NUCOR-YAMATO STEEL CO.

P O BOX 1228
BLYTHEVILLE AR 72316

DATE
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SAN CRISTOBAL ECATEPEC
EDO DE MEXICO 55000

SHIP TO

FERRE BARNIEDO C/O IAF FORWARDING
1207 UNIROYAL DRIVE
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

INVOICE
63007
BILL OF LADING
797178

CUSTOMER NO.
5446
CUSTOMER P.O.
FERRE 5/9/06

925

2 **SPECIFICATIONS GRADE:** ASTM A992/A992M-04a A572/A572M GR50-04 ASTM A709/A709M-03a GR50 (345)
ASTM A709/A709M-03a GR50s (345S) ASTM A6/A6M-05a

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				YIELD TO TENSILE RATIO	YIELD STRENGTH F _Y MPa	TENSILE STRENGTH F _T MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE		
								TEMP F	IMPACT ENERGY FT-LBS													J	
1	W14 -159.0 40' IP14/5237I	1	278673	.75	55000	73000	28					.08	.32	.014	.025	.28	.33	.10	.10	.03	.00	.020	.36
	W360 x237.0 12.192 M			.75	55000	73000	28													.01	.19		
2	W14 -159.0 40' ✓	3	278758	.76	55000	72000	28					.07	.30	.010	.017	.25	.30	.09	.06	.03	.00	.019	.34
	W360 x237.0 12.192 M			.77	56000	73000	29													.01	.17		
3	W14 -159.0 40' ✓	4	278993	.75	54000	72000	27					.07	.31	.019	.025	.23	.32	.11	.15	.03	.04	.001	.36
	W360 x237.0 12.192 M			.75	54000	72000	28													.01	.18		
4	W14 -159.0 40' ✓	1	278994	.76	53000	70000	28					.07	.32	.015	.020	.25	.32	.12	.12	.03	.01	.019	.35
	W360 x237.0 12.192 M			.76	54000	71000	29													.01	.18		
5	W14 -159.0 40' ✓	3	279046	.73	54000	74000	27					.08	.34	.015	.022	.25	.34	.14	.13	.03	.00	.020	.36
	W360 x237.0 12.192 M			.76	56000	74000	27													.01	.19		
6	W21 - 44.0 40' IP21/07065I	3	278166	.78	57000	73000	24					.06	.16	.032	.038	.26	.32	.11	.15	.03	.01	.022	.32
	W530 x 66.0 12.192 M			.77	56000	73000	24													.01	.16		
7	W21 - 44.0 40' ✓	6	278566	.78	59000	76000	23					.07	.10	.020	.032	.30	.31	.10	.11	.03	.01	.022	.31
	W530 x 66.0 12.192 M			.78	59000	76000	24													.01	.17		
8	W21 - 44.0 40' ✓	6	278568	.74	56000	76000	25					.07	.15	.018	.036	.33	.31	.11	.10	.03	.01	.023	.32
	W530 x 66.0 12.192 M			.77	57000	74000	23													.01	.17		

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH CARBON EQUIVALENT CE = C + Mn/6 + (Cr+Mo+V) / 5 + (Ni+Cu) / 15
P_{cm} = C + Si / 30 + Mn / 20 + Cu / 20 + Ni / 60 + Cr / 20 + Mo / 15 + V / 10 + 5B B-Approx .0005
Corrosion Index: CI = 26.01(%Cu) + 3.88(%Ni) + 1.2(%Cr) + 1.49(%Si) + 17.28(%P) - 7.29(%Cu)(%Ni) - 9.10(%Ni)(%P) - 33.39(%Cu)²

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, and when designated by the purchaser, meet the applicable specifications.

GARY PENNELL
QUALITY ASSURANCE

STATE OF ARKANSAS
COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS
Day of _____
NOTARY PUBLIC