

NUCOR STEEL - BERKELEY  
 P.O. Box 2239  
 Mt. Pleasant, S.C., 29464  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/11/14 11:45:51

100% METTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and  
 rolled to a fully killed and fine grain practice.  
 Mercury has not been used in the direct manufacturing of this material.

Sold To: PIESA ANRHURC Y CIA SA DE CV  
 AVE VALLE DE LOS ALAMEDAS  
 NO 66-0  
 TULITLILAN, EM 54940

Ship To: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLES FISCALES  
 CPT MUELLES FISCALES, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.I. #: 10922925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

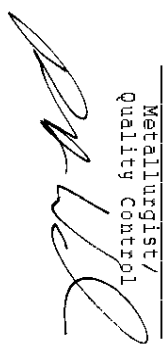
ASHTO : M270-50-10  
 RSMT : SR-36 07a  
 ASTM : A992-11/A936-12/A529-05-50/A572 5013a/A709-5013a  
 CSR : G40,2150W/G402150WMT

Description	Heat	Grade(s)	Yield/ Tensile Ratio	Yield (MPa)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P Sn	S B	Si V N	Cu ND	Ni CI	CE1 CE2 Pcm
W12x14	1440341	A992-11	.82	56700	68900	25.06	.07	.85	.009	.030	.24	.14	.05	.23
040' 00.00'				391	475	26.21	.03	.01	.0064	.0004	.003	.016	.05	.2746
W310x21.0	58500	A992-11	.84	58500	69900	26.21	.01	.001	.0064	.0004	.0034	.016	3.69	.1318
012.1920m				403	482	16 Dc(s)	8,960 lbs							
W12x14	1440337	A992-11	.83	54500	66000	26.44	.07	.86	.010	.030	.21	.18	.05	.23
040' 00.00'				376	455	26.09	.03	.01	.0069	.0003	.003	.016	.05	.2709
W310x21.0	56600	A992-11	.84	56600	67300	26.09	.01	.001	.0069	.0003	.0030	.016	4.18	.1300
012.1920m				390	464	32 Dc(s)	17,920 lbs							
W12x14	2410265	A992-11	.83	58800	70600	25.36	.07	.86	.009	.031	.22	.14	.05	.24
040' 00.00'				405	487	26.41	.04	.01	.0085	.0004	.005	.015	.05	.2800
W310x21.0	59200	A992-11	.84	59200	70500	26.41	.01	.001	.0085	.0004	.0044	.015	3.72	.1366
012.1920m				408	486	24 Dc(s)	13,440 lbs							
W12x16	2405267	A992-11	.85	60500	71200	25.15	.07	.81	.008	.031	.23	.14	.04	.22
040' 00.00'				417	491	28.95	.03	.01	.0081	.0005	.004	.028	.04	.2674
W310x23.8	60400	A992-11	.85	60400	70700	28.95	.01	.001	.0081	.0005	.0049	.028	3.62	.1299
012.1920m				416	487	48 Dc(s)	30,720 lbs							

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu)  
 Pcm = C+((Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10))+5B  
 CE1 = C+((Mn/6)+((Cr+Mo+V)/5))+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I 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 material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work  
 Metallurgist/  
 Quality Control



NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Mt. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

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Sold To: PIESA ANRHURC Y CIA SA DE CV  
 AVE VALLE DE LOS ALAMEDAS  
 NO 66-0  
 TULLIHAN, EM 54940

SHIP TO: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLER FISCALES  
 CPT MUELLER FISCALES, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.I. #: 1092925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

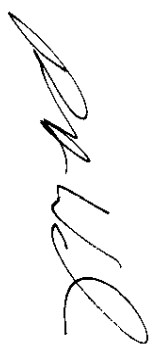
ASHTO : M270-50-10  
 RSMF : SA-36 07a  
 ASIM : A992-11/A936-12/A529-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150WM/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile (MPa)	Yield Tensile (PSI)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1	CE2	Pcm
W12x16	2405244		60700	71900	25.85	.08	.84	.008	.021	.20	.13	.04	.24	.2753	.1357
040' 00.00'	A992-11		419	496		.04	.01	.0077	.0004	.004	.025				
W310x23.8	60700		71700	24.50		.01	.01			.0047		3.41			
012.1920m	419		494	24 Dc(s)	15,360 lbs										
W12x19	2410198		61900	73400	26.81	.07	.87	.011	.033	.23	.19	.06	.24	.2869	
040' 00.00'	A992-11		427	506		.06	.01	.0087	.0004	.004	.029	4.44		.1339	
W310x28.3	62700		73900	27.09		.01	.01			.0048					
012.1920m	432		510	8 Dc(s)	6,080 lbs										
W12x19	2410194		59900	72000	27.26	.07	.85	.008	.038	.24	.20	.05	.24	.2832	
040' 00.00'	A992-11		413	496		.05	.01	.0085	.0005	.004	.029	4.51		.1340	
W310x28.3	60500		72400	26.60		.01	.01			.0043					
012.1920m	417		499	48 Dc(s)	36,480 lbs										
W12x22	2410160		59400	72400	25.71	.07	.83	.009	.031	.22	.20	.06	.24	.2801	
040' 00.00'	A992-11		410	499		.06	.01	.0096	.0004	.005	.027	4.55		.1327	
W310x32.7	59200		71100	27.76		.01	.01			.0048					
012.1920m	408		490	48 Dc(s)	42,240 lbs										

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+((Cr/20)+(Mo/15)+(V/10))+5B

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Bruce A. Work  
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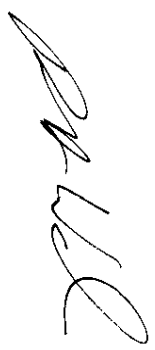
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 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150W/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1	CE2	Pcm
W12x26	2410142	82	58800	71500	24.49	.07	1.00	.011	.034	.29	.18	.06	.27	.27	.3217	.1467
040' 00.00'	A992-11	.82	405	493	24.38	.07	.01	.0083	.0004	.004	.031	.06	.3234	.3234	.1467	
W310X38.7	57400	.82	57400	70000	24.38	.07	.01	.0083	.0004	.004	.031	.06	.3234	.3234	.1467	
012.1920m	396		396	483	36 Dc(s)	37,440 lbs										
W12x26	2410146	.82	58400	70800	25.09	.07	1.03	.010	.033	.27	.19	.06	.27	.27	.3217	.1467
040' 00.00'	A992-11	.82	403	488	24.23	.06	.01	.0095	.0005	.006	.033	.06	.3217	.3217	.1467	
W310X38.7	58200	.82	58200	70600	24.23	.06	.01	.0095	.0005	.006	.033	.06	.3217	.3217	.1467	
012.1920m	401		401	487	6 Dc(s)	6,240 lbs										
W14X34	2408256	.79	55000	69500	24.49	.07	1.01	.007	.027	.27	.13	.05	.26	.26	.3143	.1451
040' 00.00'	A992-11	.80	379	479	24.80	.03	.01	.0085	.0004	.005	.030	.05	.3143	.3143	.1451	
W360X51	56700	.80	56700	70800	24.80	.03	.01	.0085	.0004	.005	.030	.05	.3143	.3143	.1451	
012.1920m	391		391	488	11 Dc(s)	14,960 lbs										
W14X34	2408250	.83	57600	69700	25.94	.07	1.02	.009	.030	.23	.13	.04	.26	.26	.3019	.1369
040' 00.00'	A992-11	.81	397	481	25.69	.04	.01	.0084	.0005	.005	.030	.04	.3019	.3019	.1369	
W360X51	56600	.81	56600	69700	25.69	.04	.01	.0084	.0005	.005	.030	.04	.3019	.3019	.1369	
012.1920m	390		390	481	19 Dc(s)	25,840 lbs										

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01(Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuNi)-(9.10NiPd)-33.39(CuXCu))  
 Pcm = C+((Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10))+5B  
 CE1 = C+((Mn/6)+(Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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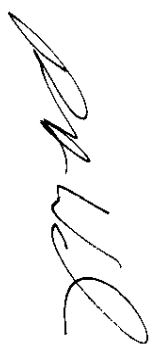
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 CSA : G40.2150W/G402150WMT

Description	Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W16x26	1405938	.84	58400	69900	26.81	.07	.82	.010	.022	.20	.08	.04	.22
040' 00.00'	A992-11		403	482	27.11	.04	.01	.0059	.0002	.003	.027	.04	.2617
W410x39	58200	.84	58200	69600	27.11	.01	.001	.0002	.0002	.0042	.027	2.52	.1248
012.1920m	401		480	480	33 Pc(s)		34,320 lbs						
W16x26	1405961	.84	60500	71600	28.63	.07	.83	.011	.026	.23	.09	.04	.22
040' 00.00'	A992-11		417	494	27.14	.04	.01	.0053	.0003	.004	.026	.04	.2680
W410x39	58100	.82	58100	70900	27.14	.01	.001	.0003	.0003	.0050	.026	2.70	.1259
012.1920m	401		489	489	9 Pc(s)		9,360 lbs						
W6X12	2407613	.84	58300	69500	27.36	.07	.88	.008	.027	.25	.15	.04	.24
040' 00.00'	A992-11		402	479	26.68	.04	.01	.0079	.0003	.003	.030	.04	.2898
W150X18.0	57200	.83	57200	68900	26.68	.01	.001	.0003	.0003	.0049	.030	3.84	.1369
012.1920m	394		475	475	39 Pc(s)		18,720 lbs						
W6X12	2407611	.84	61200	73000	27.99	.07	.86	.011	.034	.23	.19	.04	.24
040' 00.00'	A992-11		422	503	26.46	.05	.01	.0104	.0005	.005	.028	.04	.2812
W150X18.0	61900	.85	61900	72900	26.46	.01	.001	.0104	.0005	.0042	.028	4.37	.1327
012.1920m	427		500	500	68 Pc(s)		32,640 lbs						

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01(Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXp)-33.39(CuXCu))  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B  
 CE1 = C+(Mn/6)+(Cr+Mo+V)/5+(Ni+Cu)/15  
 CE2 = C+(Mn+Si)/6+(Cr+Mo+V+Cb)/5+(Ni+Cu)/15

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Bruce A. Work  
 Metallurgist/  
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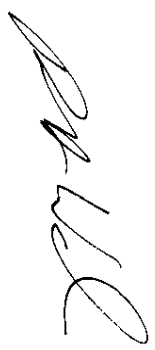
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 CSA : G40.2150WM/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1	CE2	Pcm
W6X12	2407609		.83	59900	71900	25.89	.07	.83	.009	.036	.25	.18	.04	.23	.2799	.1332
040' 00.00'	A992-11		.84	60100	71500	26.61	.04	.001	.0100	.0004	.004	.026	4.33			
W150X18.0				414	493	37 Dc(s)		17,760 lbs								
012.1920m																
W6X15	2409891		.84	59400	70800	25.78	.07	.82	.009	.029	.20	.13	.04	.23	.2651	.1263
040' 00.00'	A992-11		.83	56200	67400	25.50	.04	.001	.0083	.0004	.004	.028	3.43			
W150X22.5				387	465	18 Dc(s)		10,800 lbs								
012.1920m																
W6X15	2409862		.85	60100	70600	25.85	.07	.86	.010	.037	.25	.17	.05	.25	.2927	.1403
040' 00.00'	A992-11		.85	59300	70100	27.06	.05	.001	.0098	.0005	.005	.030	4.18			
W150X22.5				409	483	36 Dc(s)		21,600 lbs								
012.1920m																
W6X15	2409858		.81	56800	70000	25.73	.07	.85	.016	.036	.24	.15	.04	.24	.2861	.1330
040' 00.00'	A992-11		.81	57200	70200	26.28	.08	.001	.0087	.0004	.005	.027	4.02			
W150X22.5				394	484	6 Dc(s)		3,600 lbs								
012.1920m																

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu)  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B  
 CE1 = C+(Mn/6)+(Cr+Mo+V)/5+(Ni+Cu)/15  
 CE2 = C+(Mn+Si)/6+(Cr+Mo+V+Cb)/5+(Ni+Cu)/15

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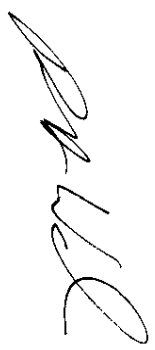
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 CSA : G40.2150WM/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W6X15	2409860	A992-11	.84	58300	69700	26.60	.07	.84	.012	.032	.20	.16	.04	.23
040' 00.00'	A992-11		.84	403	481	28.25	.06	.01	.0087	.0004	.004	.027	.04	.2710
W150X22.5	58700		.84	58700	69900	28.25	.01	.001	.0004	.0004	.0046	.027	.04	.1283
012.1920m	405			405	482	12 Dc(s)	7,200 lbs							
W6X20	2409728	A992-11	.81	53600	66000	28.10	.07	.85	.009	.035	.25	.15	.05	.23
040' 00.00'	A992-11		.83	370	455	29.04	.04	.01	.0092	.0005	.005	.030	.05	.2806
W150X29.8	56300		.83	56300	67800	29.04	.01	.001	.0005	.0005	.0049	.030	.05	.1325
012.1920m	388			388	467	54 Dc(s)	43,200 lbs							
W6X25	2409686	A992-11	.82	61100	74500	25.25	.07	1.01	.010	.033	.26	.21	.12	.29
040' 00.00'	A992-11		.82	421	514	25.23	.08	.06	.0108	.0005	.006	.030	.12	.3349
W150X37.1	60700		.82	60700	73600	25.23	.01	.001	.0108	.0005	.0062	.030	.12	.1485
012.1920m	419			419	507	45 Dc(s)	45,000 lbs							
W8X10	1409066	A992-11	.85	60000	71000	25.64	.07	.82	.011	.038	.24	.23	.06	.24
040' 00.00'	A992-11		.83	414	490	26.46	.04	.01	.0097	.0003	.003	.015	.06	.2808
W200X15.0	58300		.83	58300	70000	26.46	.01	.001	.0097	.0003	.003	.015	.06	.2808
012.1920m	402			402	483	60 Dc(s)	24,000 lbs							.1360

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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

Bruce A. Work  
 Metallurgist/  
 Quality Control



NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Mt. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/11/14 11:45:51

100% METTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice. Mercury has not been used in the direct manufacturing of this material.

SOLD TO: PIESA ANRHURC Y CIA SA DE CV  
 AVE VALLE DE LOS ALAMEDAS  
 NO 66-0  
 TULITLILAN, EM 54940

SHIP TO: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLER FISCALES  
 CPT MUELLER FISCALES, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.L. #: 1092925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

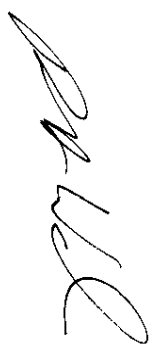
ASHTO : M270-50-10  
 RSMF : SA-36 07a  
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150W/M/G402150WMT

Description	Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W8X10	1409062	.84	59600	70800	23.76	.07	.83	.013	.041	.22	.27	.06	.25
040' 00.00'	A992-11		411	488	26.53	.07	.01	.0113	.0004	.004	.014	5.32	.2861
W200X15.0	2409054	.85	62300	73300	26.18	.07	.89	.012	.034	.22	.23	.06	.25
040' 00.00'	A992-11		430	505	26.29	.07	.01	.0127	.0004	.004	.029	4.96	.2949
W200X19.3	2409054	.84	61900	73800	26.29	.07	.89	.0127	.0004	.004	.029	4.96	.2949
012.1920m	A992-11		427	509	84 Dc(s)	.07	.01	.0127	.0004	.004	.029	4.96	.2949
W8X13	1409034	.84	60200	71600	26.46	.07	.81	.014	.036	.17	.23	.06	.23
040' 00.00'	A992-11		415	494	25.60	.05	.01	.0115	.0003	.003	.028	4.87	.2676
W200X19.3	1409034	.84	60100	71700	25.60	.05	.01	.0115	.0003	.003	.028	4.87	.2676
012.1920m	A992-11		414	494	48 Dc(s)	.07	.01	.0115	.0003	.003	.028	4.87	.2676

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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

Bruce A. Work  
 Metallurgist/  
 Quality Control



NUCOR STEEL - BERKELEY  
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 Mt. Pleasant, S.C. 29464  
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CERTIFIED MILL TEST REPORT

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SOLD TO: PIESA ANRHURC Y CIA SA DE CV  
 AVE VALLE DE LOS ALAMEDAS  
 NO 66-0  
 TULLIHAN, EM 54940

SHIP TO: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLER FISCALES  
 CPT MUELLER FISCALES, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.L. #: 1092925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

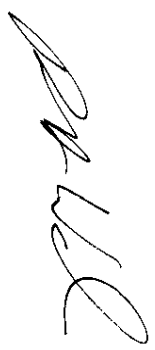
ASHTO : M270-50-10  
 RSMF : SA-36 07a  
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150W/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P Sn	S B	Si V N	Cu Nb	Ni CI	CE1 CE2 Pcm
W8X15	2408819		.83	58800	71000	28.69	.07	.82	.011	.040	.23	.17	.06	.24
040' 00.00'	A992-11		.83	405	490		.06	.01	.0081	.0005	.005	.027	4.14	.2826
W200X22.5	58500	70700	27.55	403	487	48 Dc(s)	28,800 lbs							.1366
012.1920m														
W8X15	1409028		.83	58500	70800	28.50	.07	.83	.013	.037	.22	.21	.06	.24
040' 00.00'	A992-11		.83	403	488		.06	.01	.0096	.0003	.004	.029	4.73	.2819
W200X22.5	60900	73200	28.03	420	505	12 Dc(s)	7,200 lbs							.1335
012.1920m														
W8X15	1409030		.83	58700	70800	28.93	.07	.85	.012	.034	.23	.17	.05	.24
040' 00.00'	A992-11		.83	405	488		.05	.01	.0086	.0003	.003	.029	4.12	.2862
W200X22.5	59500	71700	27.54	410	494	12 Dc(s)	7,200 lbs							.1376
012.1920m														
W8X18	2408732		.83	58700	70700	25.51	.07	.81	.015	.016	.20	.15	.05	.23
040' 00.00'	A992-11		.82	405	487		.03	.01	.0085	.0003	.004	.026	3.88	.2664
W200X26.6	57600	70100	23.65	397	483	26 Dc(s)	18,720 lbs							.1288
012.1920m														

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXp)-33.39(CuXCu)  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B  
 CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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

Bruce A. Work  
 Metallurgist/  
 Quality Control





NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Mt. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/11/14 11:45:51

100% METTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice, Mercury has not been used in the direct manufacturing of this material.

SOLD TO: PIERS ANRHURC Y CIA SA DE CV  
 AVE VALL DE LES ALMEDIAS  
 NO 66-0  
 TULLIHAN, EM 54940

SHIP TO: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLER FISCALES  
 CPT MUELLER FISCALES, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.I. #: 1092925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

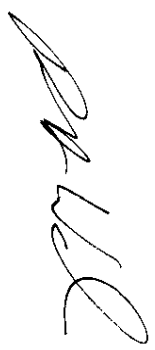
ASHTO : M270-50-10  
 RSMT : SA-36 07a  
 ASTM : A992-11/A36-12/A529-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150WM/G402150WMT

Description	Test/Heat	Heat Grade(s)	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P Sn	S B	Si V N	Cu Nb	Ni CI	CE1 CE2 Pcm
W8X18	2408731		.82	57500	70300	25.35	.08	.85	.010	.019	.18	.15	.04	.24
040' 00.00'	A992-11		.82	396	485	25.95	.03	.01	.0075	.0003	.004	.030	.04	.2755
W200X26.6			.82	57900	70900	25.95	.03	.01	.0075	.0003	.004	.030	.04	.2755
012.1920m				399	489	34 Pc(s)		24,480 lbs			.0051		3.68	.1375
W8X21	2408640		.85	59200	70000	28.01	.07	.83	.008	.028	.22	.13	.05	.23
040' 00.00'	A992-11		.84	408	483	26.69	.04	.01	.0071	.0003	.003	.029	.046	.2693
W200X31.3			.84	59100	70400	19 Pc(s)		15,960 lbs			.0044		3.46	.1277
012.1920m				407	485	1 Pc(s)		840 lbs			.0044		3.54	.1315
W8X21	2408642		.84	58900	70100	27.19	.07	.83	.008	.031	.24	.13	.04	.23
040' 00.00'	A992-11		.84	406	483	27.16	.04	.01	.0072	.0003	.004	.030	.04	.2662
W200X31.3			.84	58800	70100	27.16	.04	.01	.0072	.0003	.004	.030	.04	.2662
012.1920m				405	483	1 Pc(s)		840 lbs			.0045		3.54	.1315
W8X21	2408662		.84	59500	71000	28.51	.07	.84	.006	.026	.20	.15	.05	.23
040' 00.00'	A992-11		.84	410	490	25.89	.03	.01	.0090	.0004	.005	.028	.05	.2709
W200X31.3			.84	59100	70400	25.89	.03	.01	.0090	.0004	.005	.028	.05	.2709
012.1920m				407	485	27 Pc(s)		22,680 lbs			.0050		3.69	.1314

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXp)-33.39(CuXCu)  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B  
 CE1 = C+(Mn/6)+(Cr+Mo+V)/5+(Ni+Cu)/15  
 CE2 = C+(Mn+Si)/6+(Cr+Mo+V+Cb)/5+(Ni+Cu)/15

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

Bruce A. Work  
 Metallurgist/  
 Quality Control



NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Mt. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/11/14 11:45:51

100% MELTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and  
 rolled to a fully killed and fine grain practice,  
 Mercury has not been used in the direct manufacturing of this material.

SOLD TO: PIESA ANRHURC Y CIA SA DE CV  
 AVE VALL DE LES ALMEDIAS  
 NO 66-0  
 TULLIHAN, EM 54940

SHIP TO: DIX SHIPPING PORT OF TAMPICO  
 TERMINAL MUELLER FISCALIS  
 CPT MUELLER FISCALIS, TM  
 TAMPICO, TM 89000

Customer #: 3926 - 2  
 Customer PO: 19200  
 B.O.L. #: 1092925  
 Invoice #: 1586919 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370, Quality Manual Rev #27.

ASHTO : M270-50-10  
 RSMF : SA-36 07a  
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a  
 CSA : G40.2150WM/G402150WMT

Description	Heat	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn	P S	S B	Si V	Cu Nb	Ni CI	CE1 CE2 Pcm
W8X21	2408660	.84	5900	71000	28.63	.07	.84	.007	.029	.22	.14	.05	.23
040' 00.00'	A992-11	.84	413	490	26.53	.04	.01	.0084	.0004	.004	.027	.70	.2702
W200X31.3	59300	.84	59300	70700	26.53	.04	.01	.0084	.0004	.004	.027	.70	.1272
012.1920m	409		487	487	3 P c(s)	2,520 lbs							
W8X35	1409190	.81	58700	72300	23.51	.07	1.05	.010	.035	.24	.19	.06	.27
040' 00.00'	A992-11	.80	405	405	22.73	.05	.01	.0103	.0003	.004	.031	.47	.3172
W200X52	57600	.80	57600	71700	22.73	.05	.01	.0103	.0003	.004	.031	.47	.1417
012.1920m	397		397	494	30 P c(s)	42,000 lbs							

38 Heat(s) for this MTR.

Elongation based on 8" (20.32cm) gauge length, No Weld Repair was performed.  
 CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/5)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)  
 Pcm = C+((Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10))+5B

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Bruce A. Work  
 Metallurgist

