

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

CERTIFIED MILL TEST REPORT

11/15/16 5:37:07
 100% EAF 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 VALLE DE LOS ALAMODES
 NO 66-0
 TULLITIAN, EM 54940

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

Customer #: 3926 - 2
 Customer PO: 24540
 B.O.I. H.: 1234371
 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-16 and A370, Quality Manual Rev #6 (12-8-15).

ASHTO : M270-345M270-50-10
 RSMF : SR-36 13
 ASTM : A992-11(15)/A36-14/A529-14-50/A572 5015/A709-5016a
 CSR : G40,21-50W/G40,2150WM/G402150WMT

Part #	Description	Heat#	Grade(s)	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P S	Su B	Si V N	Cu ND	Ni CI	CE1 CE2	Pcm
W14X38	040' 00.00'	2611147	A992-11(15)	.81	56900	70300	24.91	.07	1.03	.007	.027	.26	.14	.04	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.82	57700	70500	26.11	.04	.01	.0071	.0003	.004	.028	3.62	.3094	.1389
W14X38	012.1920m	2611143	A992-11(15)	.79	53900	68300	25.16	.07	1.00	.006	.024	.24	.14	.04	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.79	52900	66800	25.48	.04	.01	.0074	.0004	.004	.029	3.57	.3022	.1373
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700	24.88	.03	.01	.0046	.0003	.004	.030	2.96	.3024	.1354
W14X38	012.1920m	2614332	A992-11(15)	.81	55600	68900	25.59	.07	1.03	.006	.018	.22	.10	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	57100	70900	25.39	.03	.01	.0052	.0003	.004	.028	2.84	.2989	.1366
W14X38	012.1920m	2614330	A992-11(15)	.80	55500	69100	24.70	.07	1.04	.007	.021	.24	.11	.03	.26	.26
W360X57.8	040' 00.00'	A992-11(15)		.81	56300	69700										

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

CERTIFIED MILL TEST REPORT

11/15/16 5:37:07
 100% FRT 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: PORT OF TAMPICO
 TERMINAL MUELLER FISCALIES
 CPT MUELLER FISCALIES, TM
 TAMPICO, TM 89000

Customer #: 3926 - 2
 Customer PO: 24540
 B.O.I. #: 1234371
 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-16 and A370, Quality Manual Rev #6 (12-8-15).

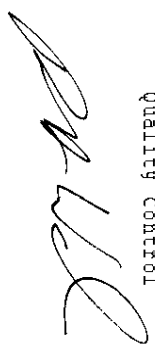
ASHTO : M270-345M270-50-10
 RSME : SR-36 13
 ASTM : A992-11(15);/A36-14/A529-14-50/A572 5015/A709-5016a
 CSA : G40.21-50/G40.2150WM/G402150WMT

Part #	Description	Heat	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P S	S S	Si V N	Cu Nb	Ni CI	CE1 CE2 Pcm
W16X26	040' 00.00'	2609533	.83	60100	72400	26.24	.07	.89	.011	.021	.23	.16	.04	.24
W410x39	012.1920m	A992-11(15)	.82	57200	70100	26.11	.04	.001	.0083	.0003	.004	.027	4.01	.2836
W16X26	040' 00.00'	1613248	.83	57200	69000	25.84	.07	.85	.006	.030	.23	.14	.04	.23
W410x39	012.1920m	A992-11(15)	.82	56300	68800	25.43	.04	.001	.0074	.0004	.004	.028	3.52	.2754
W16X26	040' 00.00'	1613225	.83	58100	69900	23.79	.07	.84	.006	.027	.22	.12	.04	.22
W410x39	012.1920m	A992-11(15)	.84	56400	67300	25.74	.03	.001	.0052	.0004	.003	.029	3.14	.2659
W16X26	040' 00.00'	1613225	.83	58100	69900	23.79	.07	.84	.006	.027	.22	.12	.04	.22
W410x39	012.1920m	A992-11(15)	.84	56400	67300	25.74	.03	.001	.0052	.0004	.003	.029	3.14	.2659
W16X26	040' 00.00'	1613225	.83	58100	69900	23.79	.07	.84	.006	.027	.22	.12	.04	.22
W410x39	012.1920m	A992-11(15)	.84	56400	67300	25.74	.03	.001	.0052	.0004	.003	.029	3.14	.2659

Elongation based on 8" (20.32cm) gauge length. (No Weld Repair) was performed. Hg free and no contact with Hg during manufacture.
 CE1 = 26.01Cu+3.88Mn+1.20Cr+1.49Si+17.28P-(7.29Cu+Mn)-(9.10Ni+P)-33.39(Cu+Cu)
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V)/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 R. Work
 Metallurgist/
 Quality Control



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

CERTIFIED MILL TEST REPORT

11/15/16 5:37:07

100% FRT 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 VALLI DE LOS ALAMEDAS
NO 66-0
TULLITIAN, EM 54940
SHIP TO: PORT OF TAMPICO
TERMINAL MUELLES FISCALES
CPT MUELLES FISCALES, TM
TAMPICO, TM 89000
Customer #: 3926 - 2
Customer PO: 24540
B.O.L. #: 1234371
MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-16 and A370, Quality Manual Rev #6 (12-8-15).
ASHTO : M270-345M270-50-10
RSME : SR-36 13
ASTM : A992-11(15)/A36-14/A529-14-50/A572 5015/A709-5016a
CSR : G40,21-50W/G40,2150WM/G402150WMT
8 Heat(s) for this MTR.

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