

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

CERTIFIED MILL TEST REPORT

9/11/14 11:45:35

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
 TULLITIAN, EM 54940

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

Customer #: 3926 - 2
 Customer PO: 19194
 B.O.I. #: 1092927
 Invoice #: 1586920 MOS: B

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

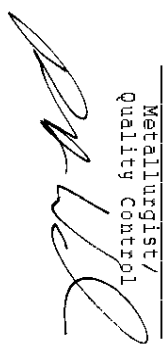
ASHTO : M270-50-10
 RSMT : SR-36 07a
 ASTM : A992-11/A936-12/A529-05-50/A572 5013a/A709-5013a
 CSR : G40,2150W/G402150WMT

| Description | Heat | Yield/ Tensile Ratio | Yield (PSI) (MPa) | Tensile (PSI) (MPa) | Elong % | C Cr | Mn Mo Ti | P S | S B | Si V N | Cu ND | Ni CI | CE1 CE2 Pcm |
|-------------|---------|----------------------|-------------------|---------------------|---------|-------|------------|-------|-------|--------|-------|-------|-------------|
| W10x12 | 1405776 | .85 | 59800 | 70200 | 28.26 | .07 | .83 | .011 | .029 | .19 | .12 | .04 | .23 |
| 040' 00.00' | A992-11 | .85 | 412 | 484 | 28.55 | .04 | .01 | .0080 | .0003 | .003 | .015 | 3.20 | .2622 |
| W250x17.9 | 58900 | .85 | 58900 | 68900 | 28.55 | .001 | .001 | .0080 | .0003 | .0031 | .015 | 3.20 | .1268 |
| 012.1920m | 406 | | 406 | 475 | 96 | Pc(s) | 46,080 lbs | | | | | | |
| W10x15 | 1405711 | .85 | 61400 | 72500 | 26.93 | .07 | .83 | .009 | .028 | .25 | .10 | .04 | .23 |
| 040' 00.00' | A992-11 | .85 | 423 | 500 | 27.38 | .04 | .01 | .0057 | .0003 | .003 | .031 | 3.03 | .2753 |
| W250x22.3 | 61200 | .85 | 61200 | 71900 | 27.38 | .001 | .001 | .0057 | .0003 | .0048 | .031 | 3.03 | .1305 |
| 012.1920m | 422 | | 422 | 496 | 43 | Pc(s) | 25,800 lbs | | | | | | |
| W10x15 | 1405709 | .85 | 60700 | 71500 | 28.24 | .07 | .87 | .011 | .020 | .24 | .11 | .03 | .23 |
| 040' 00.00' | A992-11 | .86 | 419 | 493 | 28.58 | .04 | .01 | .0067 | .0004 | .004 | .028 | 3.08 | .2760 |
| W250x22.3 | 62000 | .86 | 62000 | 72400 | 28.58 | .001 | .001 | .0067 | .0004 | .0079 | .028 | 3.08 | .1279 |
| 012.1920m | 427 | | 427 | 499 | 25 | Pc(s) | 15,000 lbs | | | | | | |
| W10x15 | 1405707 | .85 | 60000 | 70500 | 27.74 | .07 | .90 | .009 | .025 | .24 | .12 | .04 | .24 |
| 040' 00.00' | A992-11 | .85 | 414 | 486 | 27.91 | .05 | .01 | .0067 | .0003 | .003 | .025 | 3.26 | .2848 |
| W250x22.3 | 58200 | .85 | 58200 | 68800 | 27.91 | .001 | .001 | .0067 | .0003 | .0048 | .025 | 3.26 | .1319 |
| 012.1920m | 401 | | 401 | 474 | 4 | Pc(s) | 2,400 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



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 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: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

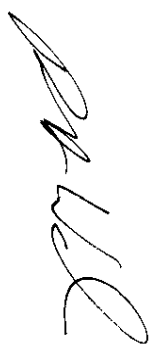
ASHTO : M270-50-10
 RSMF : SA-36 07a
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a
 CSA : G40.2150WM/G402150WMT

| Description | 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 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|---------|------|----------|-------|-------|--------|-------|-------|---------|
| W12X14 | 2410265 | 83 | 58800 | 70600 | 25.36 | .07 | .04 | .86 | .009 | .031 | .22 | .14 | .05 | .24 |
| 040' 00.00' | A992-11 | | 405 | 487 | | .04 | .01 | .001 | .0085 | .0004 | .005 | .015 | 3.72 | .2800 |
| W310X21.0 | 59200 | 84 | 59200 | 70500 | 26.41 | .07 | .01 | .86 | .009 | .026 | .16 | .11 | .05 | .24 |
| 012.1920m | 408 | | 408 | 486 | | .04 | .001 | .001 | .0088 | .0003 | .005 | .014 | 3.12 | .2666 |
| W12X14 | 1410361 | 84 | 57700 | 69100 | 29.88 | .07 | .06 | .81 | .008 | .031 | .23 | .14 | .04 | .22 |
| 040' 00.00' | A992-11 | | 398 | 476 | | .03 | .01 | .001 | .0081 | .0005 | .004 | .028 | 3.62 | .2674 |
| W310X21.0 | 60400 | 85 | 60400 | 70700 | 28.95 | .07 | .01 | .81 | .008 | .031 | .23 | .14 | .04 | .22 |
| 012.1920m | 416 | | 416 | 487 | | .03 | .001 | .001 | .0081 | .0005 | .004 | .028 | 3.62 | .2674 |
| W12X16 | 2405267 | 85 | 60500 | 71200 | 25.15 | .07 | .01 | .81 | .008 | .031 | .23 | .14 | .04 | .22 |
| 040' 00.00' | A992-11 | | 417 | 491 | | .07 | .01 | .81 | .008 | .031 | .23 | .14 | .04 | .22 |
| W310X23.8 | 60400 | 85 | 60400 | 70700 | 28.95 | .07 | .01 | .81 | .008 | .031 | .23 | .14 | .04 | .22 |
| 012.1920m | 416 | | 416 | 487 | | .07 | .001 | .001 | .0081 | .0005 | .004 | .028 | 3.62 | .2674 |
| W12X16 | 1410366 | 85 | 59300 | 69900 | 26.41 | .07 | .01 | .82 | .009 | .032 | .23 | .15 | .05 | .23 |
| 040' 00.00' | A992-11 | | 409 | 482 | | .04 | .01 | .001 | .0080 | .0004 | .003 | .028 | 3.76 | .2695 |
| W310X23.8 | 58900 | 85 | 58900 | 69600 | 26.06 | .07 | .01 | .82 | .009 | .032 | .23 | .15 | .05 | .23 |
| 012.1920m | 406 | | 406 | 480 | | .04 | .001 | .001 | .0080 | .0004 | .003 | .028 | 3.76 | .2695 |

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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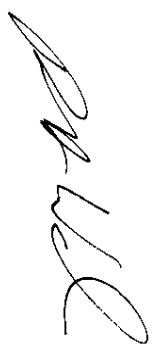
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 RSME : SA-36 07a
 ASTM : A992-11/A36-12/A529-05-50/A572 5013a/A709-5013a
 CSA : G40.2150W/G402150WMT

| 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 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|-----------|-------------|------|-------|-------|------|------|------|-------|
| W12X19 | 2410194 | A992-11 | .83 | 59900 | 72000 | 27.26 | .07 | .85 | .008 | .038 | .24 | .20 | .05 | .24 |
| 040' 00.00' | A992-11 | | .84 | 60500 | 72400 | 26.60 | .05 | .01 | .0085 | .0005 | .004 | .029 | 4.51 | .24 |
| W310X28.3 | 012.1920m | | .84 | 60500 | 72400 | 26.60 | .05 | .01 | .0085 | .0005 | .004 | .029 | 4.51 | .24 |
| 012.1920m | | | | 417 | 499 | 144 Pc(s) | 109,440 lbs | | | | | | | .1340 |
| W12X19 | 2410192 | A992-11 | .83 | 59300 | 71200 | 26.14 | .07 | .80 | .007 | .034 | .21 | .19 | .05 | .23 |
| 040' 00.00' | A992-11 | | .84 | 61300 | 73300 | 26.21 | .04 | .01 | .0089 | .0004 | .004 | .028 | 4.37 | .2701 |
| W310X28.3 | 012.1920m | | .84 | 61300 | 73300 | 26.21 | .04 | .01 | .0089 | .0004 | .004 | .028 | 4.37 | .2701 |
| 012.1920m | | | | 423 | 505 | 32 Pc(s) | 24,320 lbs | | | | | | | .1307 |
| W12X22 | 2410160 | A992-11 | .82 | 59400 | 72400 | 25.71 | .07 | .83 | .009 | .031 | .22 | .20 | .06 | .24 |
| 040' 00.00' | A992-11 | | .83 | 59200 | 71100 | 27.76 | .06 | .01 | .0096 | .0004 | .005 | .027 | 4.55 | .2801 |
| W310X32.7 | 012.1920m | | .83 | 59200 | 71100 | 27.76 | .06 | .01 | .0096 | .0004 | .005 | .027 | 4.55 | .2801 |
| 012.1920m | | | | 408 | 490 | 128 Pc(s) | 112,640 lbs | | | | | | | .1327 |
| W12X26 | 2410140 | A992-11 | .81 | 57300 | 70900 | 25.05 | .07 | 1.08 | .013 | .031 | .25 | .19 | .05 | .28 |
| 040' 00.00' | A992-11 | | .82 | 58500 | 71500 | 25.75 | .06 | .01 | .0091 | .0005 | .005 | .030 | 4.50 | .3260 |
| W310X38.7 | 012.1920m | | .82 | 58500 | 71500 | 25.75 | .06 | .01 | .0091 | .0005 | .005 | .030 | 4.50 | .3260 |
| 012.1920m | | | | 403 | 493 | 18 Pc(s) | 18,720 lbs | | | | | | | .1481 |

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)
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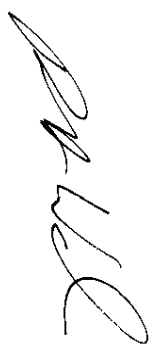
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| Description | Test/Heat | Heat Grade(s) | Yield Tensile Ratio | Yield (PSI) (MPa) | Tensile (PSI) (MPa) | Elong % | C Cr | Mn | P | S | Si | Cu | Ni | CE1 | CE2 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|------------|------|-------|-------|-------|------|------|-------|-----|-----|
| W12X26 | 2410146 | 82 | 58400 | 70800 | 25.09 | .07 | 1.03 | .010 | .033 | .27 | .19 | .06 | .27 | | |
| 040' 00.00' | A992-11 | | 403 | 488 | 24.23 | .06 | .01 | .0095 | .0005 | .006 | .033 | .06 | .3217 | | |
| W310X38.7 | 58200 | 82 | 58200 | 70600 | 24.23 | .01 | .001 | .0095 | .0005 | .0048 | .033 | .50 | .1440 | | |
| 012.1920m | 401 | | 487 | 65 | Pc(s) | 67,600 lbs | | | | | | | | | |
| W12X26 | 2410142 | 82 | 58800 | 71500 | 24.49 | .07 | 1.00 | .011 | .034 | .29 | .18 | .06 | .27 | | |
| 040' 00.00' | A992-11 | | 405 | 493 | 24.38 | .07 | .01 | .0083 | .0004 | .004 | .031 | .049 | .3234 | | |
| W310X38.7 | 57400 | 82 | 57400 | 70000 | 24.38 | .01 | .001 | .0083 | .0004 | .0052 | .031 | .49 | .1467 | | |
| 012.1920m | 396 | | 483 | 1 | Pc(s) | 1,040 lbs | | | | | | | | | |
| W12X30 | 2405006 | 82 | 59000 | 72100 | 24.84 | .07 | 1.03 | .009 | .027 | .25 | .16 | .04 | .26 | | |
| 040' 00.00' | A992-11 | | 407 | 497 | 24.04 | .04 | .01 | .0091 | .0004 | .005 | .029 | .04 | .3094 | | |
| W310X44.5 | 58500 | 82 | 58500 | 72000 | 24.04 | .01 | .001 | .0091 | .0004 | .0045 | .029 | .04 | .1406 | | |
| 012.1920m | 403 | | 496 | 12 | Pc(s) | 14,400 lbs | | | | | | | | | |
| W12X30 | 2410050 | 81 | 58500 | 72300 | 23.79 | .07 | 1.03 | .015 | .025 | .26 | .15 | .04 | .26 | | |
| 040' 00.00' | A992-11 | | 403 | 493 | 22.99 | .05 | .01 | .0075 | .0004 | .005 | .028 | .04 | .3128 | | |
| W310X44.5 | 61000 | 83 | 61000 | 73800 | 22.99 | .01 | .001 | .0075 | .0004 | .0073 | .028 | .04 | .3128 | | |
| 012.1920m | 421 | | 509 | 38 | Pc(s) | 45,600 lbs | | | | | | | .1395 | | |

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)

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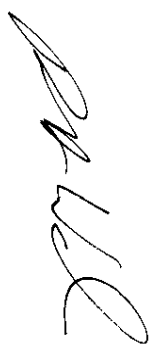
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| Description | Test/Heat | Heat Grade(s) | Yield Tensile Ratio | Yield (PSI) (MPa) | Tensile (PSI) (MPa) | Elong % | C Cr | Mn | P | S | Si | Cu | Ni | CE1 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|---------|------|------|-------|-------|-------|------|------|-------|
| W12X30 | 2410048 | 040' 00.00' | .81 | 57200 | 70400 | 23.83 | .07 | 1.03 | .011 | .027 | .26 | .15 | .04 | .26 |
| W12X30 | 8992-11 | 040' 00.00' | .81 | 394 | 485 | 23.35 | .04 | .01 | .0075 | .0005 | .005 | .030 | .04 | .3088 |
| W310X44.5 | 58000 | 012.1920m | .81 | 58000 | 71200 | 23.35 | .001 | .001 | .0005 | .0005 | .0043 | .030 | 3.83 | .1388 |
| W12X30 | 2410018 | 040' 00.00' | .82 | 57100 | 69500 | 23.04 | .07 | 1.04 | .009 | .029 | .30 | .14 | .04 | .26 |
| W12X30 | 8992-11 | 040' 00.00' | .81 | 394 | 479 | 23.71 | .04 | .01 | .0068 | .0005 | .005 | .030 | .04 | .3157 |
| W310X44.5 | 58000 | 012.1920m | .81 | 58000 | 71300 | 23.71 | .001 | .001 | .0005 | .0005 | .0040 | .030 | 3.65 | .1395 |
| W12X35 | 1404866 | 040' 00.00' | .81 | 57200 | 70700 | 24.76 | .07 | 1.03 | .011 | .020 | .27 | .12 | .04 | .26 |
| W12X35 | 8992-11 | 040' 00.00' | .80 | 394 | 487 | 24.89 | .04 | .01 | .0059 | .0003 | .004 | .030 | .04 | .3094 |
| W310X52 | 57000 | 012.1920m | .80 | 57000 | 71000 | 24.89 | .001 | .001 | .0005 | .0003 | .0046 | .030 | 3.46 | .1374 |
| W12X35 | 1404854 | 040' 00.00' | .79 | 55900 | 70800 | 26.54 | .07 | 1.01 | .010 | .027 | .25 | .13 | .04 | .26 |
| W12X35 | 8992-11 | 040' 00.00' | .79 | 385 | 488 | 24.80 | .03 | .01 | .0061 | .0002 | .004 | .029 | .04 | .3042 |
| W310X52 | 55600 | 012.1920m | .79 | 55600 | 70500 | 24.80 | .001 | .001 | .0005 | .0002 | .0052 | .029 | 3.48 | .1368 |

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 CI = 26.01(Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuNi)-(9.10NiP))-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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 Invoice #: 1586920 MOS: B

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

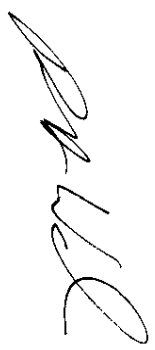
ASHTO : M270-50-10
 RSMF : SA-36 07a
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a
 CSA : G40.2150WM/G402150WMT

| Description | 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 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|----------|------------|------|-------|-------|-------|------|------|-------|-----|
| W14x22 | 2408427 | 2408424 | .84 | 61400 | 73000 | 25.84 | .07 | .82 | .009 | .034 | .22 | .13 | .04 | .23 | .23 |
| 040' 00.00' | A992-11 | A992-11 | | 423 | 503 | | .04 | .01 | .0085 | .0005 | .005 | .030 | | .2676 | |
| W360X32.9 | 64300 | 75500 | .85 | 64300 | 75500 | 27.90 | | .001 | | .0005 | .0050 | | 3.48 | .1273 | |
| 012.1920m | 443 | 521 | | 443 | 521 | 72 Pc(s) | 63,360 lbs | | | | | | | | |
| W14x22 | 2408424 | 2408424 | .86 | 64800 | 75500 | 26.65 | .07 | .81 | .012 | .035 | .18 | .15 | .05 | .23 | .23 |
| 040' 00.00' | A992-11 | A992-11 | | 447 | 521 | | .04 | .01 | .0094 | .0005 | .004 | .027 | | .2603 | |
| W360X32.9 | 64100 | 74400 | .86 | 64100 | 74400 | 26.84 | | .001 | | .0005 | .0048 | | 3.86 | .1256 | |
| 012.1920m | 442 | 513 | | 442 | 513 | 6 Pc(s) | 5,280 lbs | | | | | | | | |
| W14x26 | 2403330 | 2403330 | .85 | 59200 | 69900 | 28.40 | .07 | .84 | .012 | .031 | .25 | .09 | .03 | .22 | .22 |
| 040' 00.00' | A992-11 | A992-11 | | 408 | 482 | | .03 | .01 | .0044 | .0006 | .003 | .032 | | .2709 | |
| W360X39.0 | 59600 | 70100 | .85 | 59600 | 70100 | 29.06 | | .001 | | .0006 | .0047 | | 2.72 | .1272 | |
| 012.1920m | 411 | 483 | | 411 | 483 | 6 Pc(s) | 6,240 lbs | | | | | | | | |
| W14x26 | 2408380 | 2408380 | .84 | 59700 | 71400 | 28.16 | .07 | .80 | .010 | .039 | .22 | .17 | .06 | .23 | .23 |
| 040' 00.00' | A992-11 | A992-11 | | 412 | 492 | | .05 | .01 | .0086 | .0003 | .004 | .033 | | .2726 | |
| W360X39.0 | 61700 | 73400 | .84 | 61700 | 73400 | 27.84 | | .001 | | .0003 | .0048 | | 4.11 | .1302 | |
| 012.1920m | 425 | 506 | | 425 | 506 | 54 Pc(s) | 56,160 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)

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 11:45:35

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
 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: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

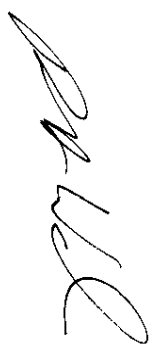
ASHTO : M270-50-10
 RSMT : SA-36 07a
 ASTM : A992-11/A36-12/A529-05-50/A572 5013a/A709-5013a
 CSA : G40.2150W/G402150WMT

| Description | Test/Heat | Heat Grade(s) | Yield Tensile (PSI) | Yield Tensile (MPa) | Elong % | C Cr | Mn | P | S | Si | Cu | Ni | CE1 | CE2 | Pcm |
|-------------|-----------|---------------|---------------------|---------------------|---------|------|------|-------|-------|------|------|------|-------|-------|-------|
| W4X34 | 2408236 | 040' 00.00' | 79 | 53000 | 24.49 | .07 | 1.01 | .007 | .027 | .27 | .13 | .05 | .26 | .3143 | .1451 |
| W360X51 | 0992-11 | 040' 00.00' | .80 | 56700 | 24.80 | .03 | .01 | .0085 | .0004 | .005 | .030 | 3.56 | .1451 | | |
| W6X12 | 2407602 | 040' 00.00' | .83 | 60100 | 26.59 | .07 | .83 | .010 | .033 | .23 | .15 | .04 | .23 | .2736 | .1324 |
| W150X18.0 | 0992-11 | 012.1920m | .84 | 60200 | 26.18 | .04 | .01 | .0089 | .0005 | .005 | .027 | 3.83 | .1324 | | |
| W6X12 | 2407600 | 040' 00.00' | .83 | 59100 | 25.24 | .07 | .81 | .009 | .032 | .22 | .16 | .04 | .22 | .2669 | .1288 |
| W150X18.0 | 0992-11 | 012.1920m | .83 | 59400 | 26.29 | .03 | .01 | .0089 | .0005 | .004 | .028 | 3.91 | .1288 | | |
| W6X25 | 2409685 | 040' 00.00' | .82 | 62000 | 24.76 | .07 | 1.08 | .013 | .033 | .25 | .23 | .15 | .30 | .3467 | .1550 |
| W150X37.1 | 0992-11 | 012.1920m | .81 | 60800 | 24.75 | .08 | .04 | .0111 | .0005 | .005 | .029 | 5.17 | .1550 | | |

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

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 11:45:35

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
 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: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

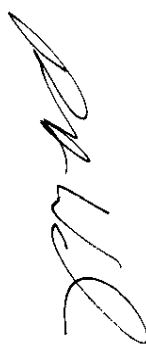
ASHTO : M270-50-10
 RSME : SA-36 07a
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a
 CSA : G40.2150WM/G402150WMT

| Description | Test/Heat | Yield/ Tensile Ratio | Yield (PSI) (MPa) | Tensile (PSI) (MPa) | Elong % | C Cr | Mn | P | S | Si | Cu | Ni | CE1 | CE2 | Pcm |
|-------------|-----------|----------------------|-------------------|---------------------|---------|------|------------|-------|-------|-------|------|------|-----|-------|-------|
| W6X25 | 2409686 | .82 | 61100 | 74500 | 25.25 | .07 | 1.01 | .010 | .033 | .26 | .21 | .12 | .29 | .3349 | .1485 |
| 040' 00.00' | A992-11 | | 421 | 514 | | .08 | .06 | .0108 | .0005 | .006 | .030 | | | | |
| W150X37.1 | 60700 | .82 | 60700 | 73600 | 25.23 | .01 | .001 | | | .0062 | | 4.90 | | | |
| 012.1920m | 419 | | 507 | 507 | | | 7,000 lbs | | | | | | | | |
| W6X9 | 2407861 | .83 | 56300 | 68100 | 26.08 | .06 | .81 | .008 | .028 | .24 | .14 | .05 | .22 | .2667 | .1265 |
| 040' 00.00' | A992-11 | | 388 | 470 | | .04 | .01 | .0080 | .0004 | .005 | .014 | 3.72 | | | |
| W150X13.5 | 56100 | .83 | 56100 | 68000 | 26.75 | .01 | .001 | | | .0044 | | | | | |
| 012.1920m | 387 | | 469 | 469 | | | 4,680 lbs | | | | | | | | |
| W6X9 | 2407853 | .82 | 55600 | 68100 | 26.33 | .07 | .84 | .011 | .026 | .17 | .15 | .05 | .23 | .2629 | .1273 |
| 040' 00.00' | A992-11 | | 383 | 470 | | .05 | .01 | .0079 | .0004 | .004 | .013 | 3.77 | | | |
| W150X13.5 | 54100 | .81 | 54100 | 66600 | 26.66 | .01 | .001 | | | .0051 | | | | | |
| 012.1920m | 373 | | 459 | 459 | | | 12,600 lbs | | | | | | | | |
| W6X9 | 2407850 | .81 | 56400 | 70000 | 27.70 | .07 | .86 | .013 | .020 | .22 | .14 | .05 | .24 | .2834 | .1348 |
| 040' 00.00' | A992-11 | | 389 | 483 | | .06 | .01 | .0079 | .0004 | .005 | .016 | 3.76 | | | |
| W150X13.5 | 56300 | .81 | 56300 | 69600 | 27.21 | .01 | .001 | | | .0085 | | | | | |
| 012.1920m | 388 | | 480 | 480 | | | 32,040 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

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

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
 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: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

ASHTO : M270-50-10
 RSME : SA-36 07a
 ASTM : A992-11/A992-05-50/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 S | S B | Si V N | Cu Nb | Ni CI | CE1 CE2 |
|-------------|-----------|---------------|---------------------|-------------------|---------------------|-----------|------------|----------|-------|-------|--------|-------|-------|---------|
| W6X9 | 4407848 | 40 | .82 | 56700 | 69400 | 26.63 | .07 | .89 | .014 | .026 | .17 | .13 | .06 | .25 |
| 040' 00.00' | A992-11 | | | 391 | 479 | 28.00 | .06 | .01 | .0080 | .0004 | .005 | .014 | 3.49 | .2811 |
| W150X13.5 | 57000 | 40 | .81 | 57000 | 70400 | 28.00 | .01 | .01 | .0080 | .0004 | .0077 | .014 | 3.49 | .1374 |
| 012.1920m | 393 | | | 485 | 485 | 43 Pc(s) | 15,480 lbs | | | | | | | |
| W8X10 | 2409106 | 40 | .84 | 62600 | 74100 | 26.99 | .07 | .85 | .009 | .032 | .19 | .16 | .05 | .23 |
| 040' 00.00' | A992-11 | | | 432 | 511 | 28.59 | .04 | .01 | .0085 | .0004 | .004 | .013 | 3.87 | .2680 |
| W200X15.0 | 62200 | 40 | .84 | 62200 | 74400 | 28.59 | .01 | .01 | .0085 | .0004 | .0053 | .013 | 3.87 | .1300 |
| 012.1920m | 429 | | | 513 | 513 | 24 Pc(s) | 9,600 lbs | | | | | | | |
| W8X10 | 2409059 | 40 | .83 | 57500 | 69500 | 23.91 | .07 | .81 | .010 | .038 | .21 | .27 | .06 | .24 |
| 040' 00.00' | A992-11 | | | 336 | 479 | 25.91 | .06 | .01 | .0112 | .0005 | .005 | .013 | 5.27 | .2775 |
| W200X15.0 | 58100 | 40 | .84 | 58100 | 69500 | 25.91 | .01 | .01 | .0112 | .0005 | .0078 | .013 | 5.27 | .1357 |
| 012.1920m | 401 | | | 479 | 479 | 192 Pc(s) | 76,800 lbs | | | | | | | |
| W8X15 | 2408819 | 40 | .83 | 58800 | 71000 | 28.69 | .07 | .82 | .011 | .040 | .23 | .17 | .06 | .24 |
| 040' 00.00' | A992-11 | | | 405 | 490 | 27.55 | .06 | .01 | .0081 | .0005 | .005 | .027 | 4.14 | .2826 |
| W200X22.5 | 58500 | 40 | .83 | 58500 | 70700 | 27.55 | .01 | .01 | .0081 | .0005 | .0043 | .027 | 4.14 | .1366 |
| 012.1920m | 403 | | | 487 | 487 | 144 Pc(s) | 86,400 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-(7.29CuNi)-(9.10NiP)-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 11:45:35

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,
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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: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

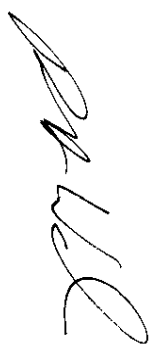
ASHTO : M270-50-10
 RSMF : SA-36 07a
 ASTM : A992-11/A992-05-50/A572 5013a/A709-5013a
 CSA : G40.2150W/G402150WMT

| Description | Test/Heat | Yield/ Tensile Ratio | Yield (PSI) (MPa) | Tensile (PSI) (MPa) | Elong % | C Cr | Mn | P | S | Si | Cu | Ni | CE1 | CE2 | Pcm |
|-------------|-----------|----------------------|-------------------|---------------------|---------|------|------------|-------|-------|-------|------|-----|-----|-------|-------|
| W8X18 | 2408732 | .84 | 58100 | 69500 | 27.89 | .07 | .82 | .013 | .026 | .21 | .17 | .05 | .23 | .2664 | .1275 |
| 040' 00.00' | A992-11 | | 401 | 479 | | .03 | .01 | .0085 | .0004 | .005 | .025 | | | | |
| W200X26.6 | 58200 | .84 | 58200 | 69600 | 25.38 | .01 | .001 | | | .0046 | | | | | |
| 012.1920m | 401 | | 480 | | | | 15,840 lbs | | | | | | | | |
| W8X18 | 2408732 | .83 | 58700 | 70700 | 25.51 | .07 | .81 | .015 | .016 | .20 | .15 | .05 | .23 | .2664 | .1288 |
| 040' 00.00' | A992-11 | | 405 | 487 | | .03 | .01 | .0085 | .0003 | .004 | .026 | | | | |
| W200X26.6 | 57600 | .82 | 57600 | 70100 | 23.65 | .01 | .001 | | | .0053 | | | | | |
| 012.1920m | 397 | | 483 | | | | 27,360 lbs | | | | | | | | |
| W8X21 | 2403462 | .83 | 58400 | 70300 | 27.96 | .07 | .87 | .011 | .030 | .19 | .12 | .04 | .23 | .2684 | .1300 |
| 040' 00.00' | A992-11 | | 403 | 485 | | .03 | .01 | .0070 | .0006 | .004 | .027 | | | | |
| W200X31.3 | 57500 | .83 | 57500 | 69400 | 27.45 | .01 | .001 | | | .0051 | | | | | |
| 012.1920m | 396 | | 479 | | | | 17,640 lbs | | | | | | | | |
| W8X21 | 2403464 | .83 | 56600 | 68100 | 27.49 | .07 | .82 | .010 | .028 | .20 | .13 | .04 | .22 | .2619 | .1269 |
| 040' 00.00' | A992-11 | | 390 | 470 | | .03 | .01 | .0069 | .0006 | .004 | .028 | | | | |
| W200X31.3 | 57400 | .83 | 57400 | 68900 | 27.36 | .01 | .001 | | | .0050 | | | | | |
| 012.1920m | 396 | | 475 | | | | 7,560 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

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



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 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/11/14 11:45:35

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 VALLE DE LOS ALAMEDAS
 NO 66-0
 TULITLILIAN, EM 54940

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

Customer #: 3926 - 2
 Customer PO: 19194
 B.O.L. #: 1092927
 Invoice #: 1586920 MOS: B

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

ASHTO : M270-50-10
 RSME : SA-36 07a
 ASTM : A992-11/A36-12/A529-05-50/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 |
|-------------|---------|----------------------|-------------------|---------------------|----------|------------|-----|-------|-------|-------|-------|-------|---------|
| W8X21 | 2408668 | .83 | 60300 | 72600 | 27.05 | .07 | .83 | .010 | .032 | .24 | .14 | .05 | .23 |
| 040' 00.00' | A992-11 | .83 | 417 | 501 | 27.38 | .04 | .01 | .0088 | .0004 | .004 | .027 | .77 | .2794 |
| W200X31.3 | 60000 | .83 | 60000 | 72100 | 27.38 | .04 | .01 | .0088 | .0004 | .0036 | .027 | .77 | .1348 |
| 012.1920m | 414 | | 414 | 497 | 10 Pc(s) | 8,400 lbs | | | | | | | |
| W8X21 | 2408660 | .84 | 59900 | 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 | .0046 | .027 | .70 | .1272 |
| 012.1920m | 409 | | 409 | 487 | 39 Pc(s) | 32,760 lbs | | | | | | | |
| W8X21 | 2408662 | .84 | 59300 | 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 | .69 | .2709 |
| W200X31.3 | 59100 | .84 | 59100 | 70900 | 25.89 | .03 | .01 | .0090 | .0004 | .0050 | .028 | .69 | .1314 |
| 012.1920m | 407 | | 407 | 485 | 1 Pc(s) | 840 lbs | | | | | | | |

43 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)

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

