

NUCOR STEEL - BERKELEY  
 14455 Hagan Avenue  
 Bldg. SC 29450  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/10/24 18:16:28  
 100% EAF MELTED AND MANUFACTURED IN THE USA  
 Structural sections produced by Nucor-Berkeley are cast  
 and hot rolled to a fully killed and fine grain practice,  
 Mercury not intentionally added at any point during manufacturing.

Sold To: SUPERIOR SUPPLY AND STEEL  
 PO BOX 2388  
 SUIPHUR, IA 70664  
 Customer #: 808 - 1  
 B.O.L. H...: 1784180  
 MOS: 1

Shld To: SUPERIOR SUPPLY & STEEL  
 318 CITY SERVICE HIGHWAY  
 SUIPHUR, IA 70663

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.  
 Quality Manual Rev #19 (11-30-22).

RASTD : M270-50-23  
 RASTM : A992-22/A529-19-50/A5725021T1/A7095021  
 CSR : G40,2150W

Part #	Description	Heat#	Grade(s)	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P S	S B	Si V N	Cu ND	Ni CI	CE1	CE2	Pcm
C15X33.9		1408462		.80	55100	68500	27.00	.07	1.05	.012	.014	.23	.08	.04	.26	.3053	
020' 00.00'		A992-22		.83	380	472	25.00	.04	.00	.0047	.0003	.002	.030	2.71	.1367		
C381X50.44		393			57000	68500	25.00		.001			.0042					
006.0960M					393	471	4 Pc(s)	2,712 lbs	Customer PD: P025146201	BoH: 1784180							
W12X26		1406986		.81	56900	70100	26.00	.07	1.02	.010	.017	.27	.09	.04	.26	.3085	
020' 00.00'		A992-22		.81	392	483	24.00	.05	.00	.0044	.0003	.002	.030	2.83	.1370		
W310X38.7		388			56300	69500	24.00		.001			.0044					
006.0960M					388	479	1 Pc(s)	520 lbs	Customer PD: P025101801	BoH: 1784180							
W12X26		2406990		.81	57400	70600	26.00	.07	1.03	.012	.020	.27	.09	.04	.26	.3108	
020' 00.00'		A992-22		.80	396	487	23.00	.05	.01	.0048	.0004	.002	.030	2.75	.1374		
W310X38.7		392			56900	70700	23.00		.001			.0062					
006.0960M					392	487	5 Pc(s)	2,600 lbs	Customer PD: P025101801	BoH: 1784180							

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. "All mechanical testing is performed by the Quality Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B testing lab, which is independent of the production CE1 = C+(Mn/6)+(Cr+Mo+V)/5+((Ni+Cu)/15) CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cu)/5)+((Ni+Cu)/15) departments"

Nucor certifies 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.

Emma Summers  
 Metallurgist/  
 Quality Control  
*Emma Summers*

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SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.

RASTRO : M270-50-23  
 ASTM : A992-22/A529-19-50/A57250211/A7095021  
 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Yield/Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo	P S	S B	Si V	Cu Ni	CE1 CE2
W4X13	2407526	A992-22	.79	54400	68700	25.00	.07	.83	.009	.017	.21	.08	.04
020' 00.00'				375	474		.04	.01	.0052	.0003	.002	.026	.22
W100X19.3	54300		.80	54300	67800	26.00	.07	.03	.0056	.0002	.0078	.027	.2668
006.0960m				376	467		.04	.001	.0052	.0003	.0052	.026	.2625
													.1227
W4X13	2407532	A992-22	.80	53500	66700	20.00	.07	.83	.008	.014	.20	.09	.05
020' 00.00'				369	460		.04	.03	.0056	.0002	.002	.027	.23
W100X19.3	54300		.81	54300	67300	25.00	.07	.03	.0056	.0002	.0078	.027	.2668
006.0960m				374	464		.04	.001	.0056	.0002	.0078	.027	.1251
W6X15	2411400	A992-22	.84	62100	74100	25.00	.07	1.08	.013	.017	.26	.09	.05
020' 00.00'				428	511		.06	.02	.0044	.0002	.002	.030	.27
W150X22.5	63200		.84	63200	74900	28.00	.07	.001	.0044	.0002	.0058	.030	.3236
006.0960m				436	516		.07	.001	.0044	.0002	.0058	.030	.1415

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the quality testing lab, which is independent of the production departments'  
 CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+(Mn+Si)/6+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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SULPHUR, IA 70664

SULPHUR, IA 70663

Customer #: 808 - 1  
 B.O.I. H...: 1784180  
 MOS: 1

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.

RASTRO : M270-50-23  
 ASTM : A992-22/A529-19-50/A57250211/A7095021  
 CSA : G40.2150W

Part #	Description	Heat	Grade(s)	Test/Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Yield Tensile (PSI)	Elong %	C	Cr	Mn	Mo	Ti	P	S	S	Si	Cu	Ni	CE1	CE2	Pcm
W6X20	020' 00.00"	1411488	A992-22		.83	58000	70000	483	27.00	.07	.06	1.09	.01	.001	.010	.020	.020	.24	.14	.05	.28	.3233	.1439
W150X29.8	006.0960m	1411488	A992-22		.82	58400	70800	488	25.00	.06	.06	1.01	.001	.001	.0059	.0003	.0003	.0076	.033	3.79	.28	.3233	.1439
W6X25	020' 00.00"	1411328	A992-22		.80	55300	68800	474	27.00	.07	.05	1.07	.00	.001	.010	.012	.012	.24	.07	.03	.27	.3154	.1437
W150X37.1	006.0960m	1411328	A992-22		.82	55800	68300	471	26.00	.07	.05	1.07	.00	.001	.0042	.0003	.0003	.0052	.031	2.41	.27	.3154	.1437

Elongation based on 8" (20.32cm) gauge length. (No Weld Repair) was performed. All mechanical testing is performed by the quality testing lab, which is independent of the production departments"  
 CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+(Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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RASTRO : M270-50-23  
 ASTM : A992-22/A529-19-50/A57250211/A7095021  
 CSA : G40.2150WM

Part #	Description	Heat	Grade(s)	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W6X25	020' 00.00"	2411335	A992-22	.81	53100	68100	25.00	.07	1.06	.008	.013	.25	.07	.03	.26
W150X37.1	020' 00.00"	8992-22	A992-22	.79	380	470	24.00	.04	.01	.0038	.0002	.002	.032	.3094	.1373
006.0960m					54700	68900	24.00		.001			.0036		2.33	
					377	475	2 P c(s)		1,000 lbs	Customer PO:	P025146201		1784180		
W8X18	020' 00.00"	1410290	A992-22	.85	57800	68100	27.00	.07	.86	.008	.016	.20	.08	.03	.23
W200X26.6	020' 00.00"	8992-22	A992-22	.85	399	470	27.00	.04	.01	.0039	.0002	.002	.028	.2653	
006.0960m					57800	68100	27.00		.001			.0065		2.49	.1238
					399	470	14 P c(s)		5,040 lbs	Customer PO:	P025146201		1784180		
W8X18	020' 00.00"	2410293	A992-22	.85	61000	72000	28.00	.07	.86	.012	.020	.22	.18	.05	.25
W200X26.6	020' 00.00"	8992-22	A992-22	.84	421	496	28.00	.08	.01	.0066	.0003	.002	.030	.2908	
006.0960m					61100	72600	28.00		.001			.0067		4.37	.1374
					421	501	6 P c(s)		2,160 lbs	Customer PO:	P025146201		1784180		

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 CE2 = C+(Mn+Si)/6+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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Part #	Description	Heat	Grade(s)	Test/Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P S	Si V N	Cu Nb	Ni CI	CE1 CE2	
W8X18	020' 00.00'	1410290	A992-22		.85	57800	68100	27.00	.07	.01	.008	.016	.20	.08	.03	.23
W200X26.6	006.0960m	2410293	A992-22		.85	61000	72000	28.00	.07	.01	.012	.020	.22	.18	.05	.25
W8X18	020' 00.00'	020' 00.00'	A992-22		.84	61100	72600	28.00	.08	.01	.0066	.0003	.002	.030	.05	.2908
W200X26.6	006.0960m	020' 00.00'	A992-22		.85	57800	68100	27.00	.04	.01	.0039	.0002	.002	.028	.03	.2653
W8X18	020' 00.00'	020' 00.00'	A992-22		.85	57800	68100	27.00	.07	.01	.008	.016	.20	.08	.03	.23
W200X26.6	006.0960m	020' 00.00'	A992-22		.85	57800	68100	27.00	.04	.01	.0039	.0002	.002	.028	.03	.2653
W8X18	020' 00.00'	020' 00.00'	A992-22		.85	57800	68100	27.00	.07	.01	.008	.016	.20	.08	.03	.23
W200X26.6	006.0960m	020' 00.00'	A992-22		.85	57800	68100	27.00	.04	.01	.0039	.0002	.002	.028	.03	.2653

Chemical Formulas:  
 CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+(Mn+Si)/6+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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RASTRO : M270-50-23  
 ASTM : A992-22/A529-19-50/A57250211/A7095021  
 CSA : G40.2150WM

Part #	Description	Heat	Grade(s)	Test/Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W8X18	020' 00.00"	2410293	A992-22	85	61000	72000	28.00	.07	.08	.86	.012	.020	.22	.18	.05	.25
W200X26.6	020' 00.00"	6992-22	A992-22	84	421	496	28.00	.08	.01	.0066	.0003	.002	.0067	.030	4.37	.2908
W200X26.6	006.0960m	421	501	2 Pc(s)	720 lbs	Customer PO: P025116901	BoH: 1784180									.1374
W8X18	020' 00.00"	1410290	A992-22	85	57800	68100	27.00	.07	.01	.86	.008	.016	.20	.08	.03	.23
W200X26.6	006.0960m	399	470	10 Pc(s)	3,600 lbs	Customer PO: P025146201	BoH: 1784180									.2653
W8X18	020' 00.00"	1412562	A992-22	83	59200	71000	28.00	.07	.00	.88	.008	.016	.22	.07	.04	.23
W200X26.6	006.0960m	412	492	4 Pc(s)	1,440 lbs	Customer PO: P025146201	BoH: 1784180									.1301

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. "All mechanical testing is performed by the quality testing lab, which is independent of the production departments"

CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
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 Quality Manual Rev H19 (11-30-22),  
 ASTM : A992-22/A529-19-50/A57250211/A7095021  
 CSA : G40.2150WM

Part #	Description	Heat	Grade(s)	Yield/ Tensile Ratio	Yield (MPa)	Tensile (MPa)	Elong %	C Cr	Mn	P	S	Si	Cu	Ni	CE1
W8X18	020' 00.00'	1412566	A992-22	.85	59700	70400	30.00	.07	.84	.010	.019	.20	.10	.04	.23
W200X26.6	020' 00.00'	412	A992-22	.84	59400	70700	25.00	.05	.00	.0044	.0003	.002	.026	.2678	
W200X26.6	006.0960m	410	A992-22	.84	59400	70700	25.00	.05	.001	.0044	.0003	.002	.026	.2678	
W8X18	020' 00.00'	2412557	A992-22	.85	60500	71400	27.00	.07	.82	.009	.016	.21	.10	.04	.22
W200X26.6	006.0960m	412	A992-22	.84	59800	71100	26.00	.04	.001	.0043	.0002	.0053	.029	.2638	
W8X31	020' 00.00'	1410754	A992-22	.80	55200	66800	22.00	.07	1.05	.012	.020	.25	.09	.04	.27
W200X46.1	006.0960m	381	A992-22	.82	56300	69000	24.00	.05	.001	.0047	.0003	.0061	.030	.281	.3136
W200X46.1	006.0960m	388	A992-22	.82	56300	69000	24.00	.05	.001	.0047	.0003	.0061	.030	.281	.3136

=====  
 Elongation based on 8" (20.32cm) gauge length. (No Weld Repair) was performed. All mechanical testing is performed by the quality  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu\*NI)-(9.10Ni\*P)-33.39(Cu\*KCu)  
 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)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)  
 Customer PD: P025146201 BolH: 1784180  
 Customer PD: P025116901 BolH: 1784180

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 CSA : G40,2150WM

Description	Heat	Yield/Tensile	Yield/Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Ratio	(MPa)	%	Cr	Mo	Su	B	V	Nb	Cl	CE2
W8X31	2410739	.82	55800	23.00	.07	1.05	.013	.017	.27	.12	.04	.26
020' 00.00'	A992-22		385	469	.06	.01	.0051	.0003	.002	.032	3.39	.3159
W200X46.1		.81	55700	25.00		.001			.0063			.1388
006.0960m			384	473		620 lbs	Customer PO: P025116901				BoH: 1784180	

22 Heat(s) for this MTR.

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. "All mechanical testing is performed by the Quality  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) testing lab, which is independent of the production  
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"  
 CE1 = C+(Mn/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

Nucor certifies 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.

Emma Summers  
 Metallurgist/  
 Quality Control

