

A. B. STEEL MILL, INC.
 204 W. North Bend Road
 Cincinnati, OH 45216

PHYSICAL AND CHEMICAL TEST REPORT

Shipped: 04/19/2012

Shipped to: Frederick Steel Co.
 200 W. North Bend Road
 Cincinnati, OH 45216

#3 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)

Heat I.D. No.	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft	Heat I.D. No.	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft	Deform Height
120419-001	65,455	97,273	15.6%	OK	0.368	0.023		
120419-010	84,545	120,909	14.1%	OK	0.368	0.026		
120419-019	64,545	90,909	12.5%	OK	0.359	0.023		
120419-028	80,909	116,364	17.2%	OK	0.361	0.021		
120419-037	66,364	105,455	15.6%	OK	0.364	0.021		
120419-046	68,182	108,182	12.5%	OK	0.360	0.022		
120419-055	67,273	110,909	15.6%	OK	0.363	0.020		
120419-064	72,727	110,909	14.1%	OK	0.366	0.018		
120419-073	64,545	93,636	12.5%	OK	0.367	0.019		
120419-082	80,909	115,455	15.6%	OK	0.364	0.021		
120419-091	76,364	113,636	14.1%	OK	0.365	0.018		
120419-100	64,545	96,182	12.5%	OK	0.368	0.019		

SAMPLE MILL TEST REPORT
 #3 Rebar ASTM A996 Grade 60

By: Martin Kilberg
 The above is a correct record of information contained in the record of the company.

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PHYSICAL AND CHEMICAL TEST REPORT

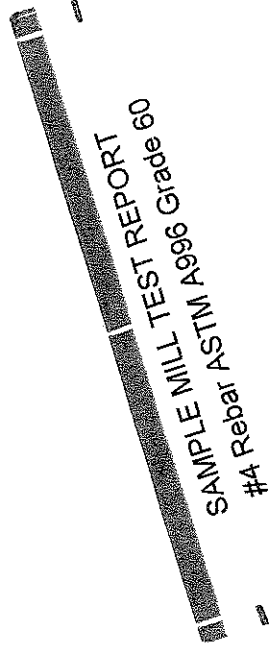
Shipped: 03/28/2012

Shipped to: Frederick Steel Co.
 200 W. North Bend Road
 Cincinnati, OH 45216

#4 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)

I.D. No.	Yield Tensile Elong		Deform		Heat	Yield Tensile Elong (psi) in 8" Bend Lb/Ft Height	Deform
	(psi)	(%)	(psi)	(%)			
120328-001	67,347	111,224	12.5%	OK	0.647	0.030	
120328-010	74,490	109,694	15.6%	OK	0.636	0.028	
120328-019	65,816	103,571	17.2%	OK	0.637	0.026	
120328-028	65,306	105,612	12.5%	OK	0.638	0.029	
120328-037	71,939	116,327	15.6%	OK	0.634	0.027	
120328-046	68,878	104,082	14.9%	OK	0.631	0.024	
120328-055	90,306	120,918	12.5%	OK	0.639	0.029	
120328-064	61,735	99,490	15.6%	OK	0.634	0.029	
120328-073	73,469	114,796	14.1%	OK	0.634	0.025	
120328-082	73,469	115,816	12.5%	OK	0.639	0.031	
120328-091	74,490	114,796	14.1%	OK	0.634	0.026	
120328-100	67,347	107,143	17.2%	OK	0.633	0.024	
120328-109	73,980	118,367	12.5%	OK	0.634	0.030	
120328-118	70,918	104,592	15.6%	OK	0.634	0.028	
120328-127	67,857	117,347	14.1%	OK	0.638	0.025	
120328-136	87,245	119,898	12.5%	OK	0.638	0.030	
120328-145	70,408	109,184	15.6%	OK	0.634	0.028	
120328-154	73,469	109,694	14.1%	OK	0.638	0.026	
120328-163	85,204	118,878	12.5%	OK	0.636	0.033	
120328-172	61,224	99,490	15.6%	OK	0.637	0.031	
120328-181	65,306	109,184	14.9%	OK	0.636	0.027	
120328-190	76,020	111,224	12.5%	OK	0.639	0.032	
120328-199	66,327	108,163	15.6%	OK	0.642	0.029	
120328-208	65,306	103,061	14.1%	OK	0.641	0.026	
120328-217	78,061	115,816	17.2%	OK	0.639	0.031	
120328-226	71,429	112,755	12.5%	OK	0.640	0.029	
120328-235	78,571	115,816	15.6%	OK	0.643	0.027	
120328-244	70,918	112,245	17.2%	OK	0.641	0.030	
120328-253	64,796	102,551	12.5%	OK	0.635	0.028	



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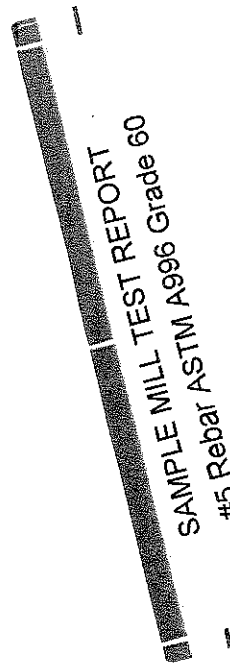
Shipped: 04/12/2012

Shipped to: Frederick Steel Co.
 200 W. North Bend Road
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#5 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)

Heat	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft Height	Deform Height	Heat	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft Height	Deform Height
120412-001	85,668	124,104	14.9%	OK	1.028	0.038			
120412-010	70,684	108,469	14.9%	OK	1.013	0.041			
120412-019	68,078	105,212	18.0%	OK	1.009	0.044			
120412-028	65,472	105,863	14.9%	OK	1.014	0.041			
120412-037	74,593	109,446	18.0%	OK	1.009	0.042			
120412-046	66,775	108,795	14.9%	OK	1.010	0.044			
120412-055	72,964	112,378	18.0%	OK	1.008	0.043			
120412-064	63,844	103,257	14.9%	OK	1.021	0.041			
120412-073	76,221	111,401	14.1%	OK	1.019	0.044			
120412-082	65,147	107,492	18.8%	OK	1.019	0.043			
120412-091	62,866	99,349	15.6%	OK	1.023	0.042			
120412-100	72,964	107,818	14.9%	OK	1.005	0.038			
120412-109	65,472	105,212	15.6%	OK	1.023	0.039			
120412-118	85,993	121,498	14.1%	OK	1.023	0.036			
120412-127	64,169	113,355	10.9%	OK	1.019	0.039			
120412-136	68,730	104,560	15.6%	OK	1.021	0.040			
120412-145	68,404	104,560	15.6%	OK	1.015	0.041			
120412-154	69,707	109,446	10.9%	OK	1.029	0.040			
120412-163	66,450	109,772	12.5%	OK	1.028	0.034			
120412-172	70,358	105,863	14.1%	OK	1.021	0.036			
120412-181	65,472	102,932	14.9%	OK	1.023	0.039			
120412-190	65,147	104,886	12.5%	OK	1.023	0.036			
120412-199	63,518	100,977	14.1%	OK	1.029	0.035			



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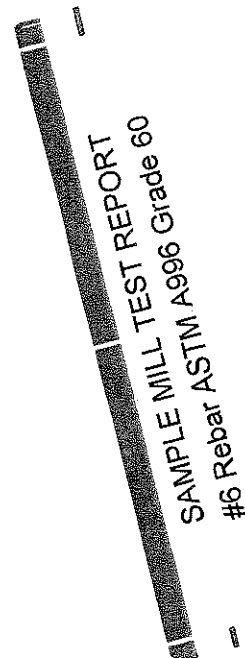
Shipped to: Frederick Steel Co.
 200 W. North Bend Road
 Cincinnati, OH 45216

Shipped: 03/08/2012

#6 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)

Heat	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft Height	Deform Height	Heat	Yield (psi)	Tensile (psi)	Elong in 8" Bend Lb/Ft Height	Deform Height
120308-001	62,896	102,489	12.5%	OK	1.445	0.048			
120308-010	75,113	110,181	14.9%	OK	1.428	0.045			
120308-019	81,448	116,968	15.6%	OK	1.453	0.046			
120308-028	61,991	103,394	12.5%	OK	1.458	0.046			
120308-037	67,195	108,145	17.2%	OK	1.435	0.047			
120308-046	82,353	114,932	15.6%	OK	1.450	0.048			
120308-055	87,763	125,566	12.5%	OK	1.458	0.048			
120308-064	69,005	107,240	14.1%	OK	1.453	0.045			
120308-073	63,801	104,751	14.9%	OK	1.453	0.046			
120308-082	76,018	118,326	12.5%	OK	1.455	0.045			
120308-091	73,982	113,575	15.6%	OK	1.445	0.042			
120308-100	75,566	110,407	14.1%	OK	1.443	0.047			
120308-109	62,217	115,611	12.5%	OK	1.448	0.048			
120308-118	76,471	104,299	15.6%	OK	1.440	0.045			
120308-127	67,421	108,145	14.1%	OK	1.453	0.047			
120308-136	66,742	108,371	12.5%	OK	1.443	0.045			
120308-145	63,122	105,204	14.9%	OK	1.448	0.045			
120308-154	76,697	109,955	14.1%	OK	1.445	0.056			
120308-163	73,982	111,312	12.5%	OK	1.440	0.056			
120308-172	67,647	109,955	15.6%	OK	1.443	0.062			
120308-181	63,801	101,357	14.1%	OK	1.425	0.059			
120308-190	61,312	98,190	12.5%	OK	1.443	0.054			
120308-199	61,312	100,679	14.9%	OK	1.443	0.054			
120308-208	74,208	113,575	15.6%	OK	1.453	0.059			
120308-217	72,172	111,538	12.5%	OK	1.453	0.055			
120308-226	61,538	95,701	15.6%	OK	1.460	0.049			
120308-235	74,887	110,633	14.1%	OK	1.463	0.051			



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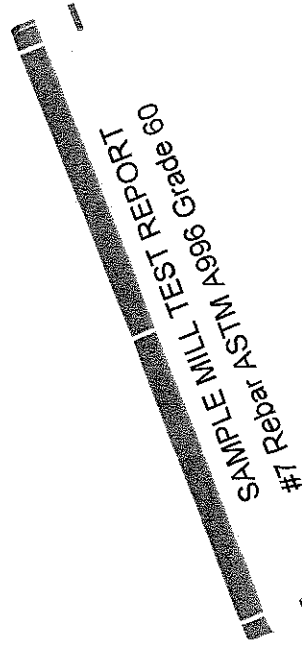
Shipped: 03/09/2012

Shipped to: Frederick Steel Co.
 200 W. North Bend Road
 Cincinnati, OH 45216

#7 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)

Heat	Yield Tensile Elong (psi) in 8"	Bend Lb/Ft Height	Deform	Heat	Yield Tensile Elong (psi) in 8"	Deform
I.D. No.	(psi)	in 8"	Bend Lb/Ft Height	I.D. No.	(psi)	Bend Lb/Ft Height
120309-001	68,220	108,652	15.6%	OK	1.953	0.052
120309-010	67,887	106,656	13.3%	OK	1.963	0.051
120309-019	62,895	99,834	12.5%	OK	1.953	0.054
120309-028	67,720	107,654	14.9%	OK	1.938	0.056
120309-037	63,394	100,832	12.5%	OK	1.940	0.054
120309-046	62,562	101,165	13.3%	OK	1.968	0.056
120309-055	64,393	97,837	15.6%	OK	1.988	0.055
120309-064	64,725	100,998	12.5%	OK	2.000	0.053
120309-073	65,724	101,331	16.4%	OK	1.973	0.052
120309-082	68,053	99,002	13.3%	OK	1.965	0.053
120309-091	67,221	93,677	12.5%	OK	1.980	0.050
120309-100	65,225	113,644	13.3%	OK	1.943	0.052
120309-109	66,722	93,344	15.6%	OK	1.950	0.049
120309-118	62,063	111,148	12.5%	OK	1.968	0.053
120309-127	74,376	108,652	14.1%	OK	1.960	0.055
120309-136	65,724	111,481	15.6%	OK	1.973	0.051
120309-145	64,725	101,664	12.5%	OK	1.975	0.051
120309-154	72,712	111,481	14.1%	OK	1.975	0.050
120309-163	63,062	97,671	15.6%	OK	1.968	0.048
120309-172	75,374	125,291	14.9%	OK	1.968	0.049
120309-181	75,042	115,641	14.1%	OK	1.980	0.049



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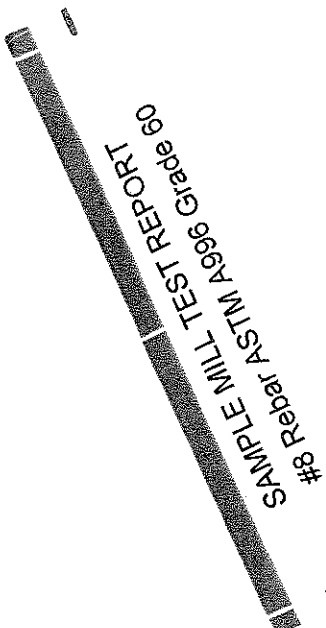
Shipped: 01/26/2012

Shipped to: Frederick Steel Co.
 200 W. North Bend Road
 Cincinnati, OH 45216

#8 REINFORCING BAR

Specification: ASTM A996-60 (C: >= 0.30; Mn: >= 0.60; P: 0.045 Max; S: 0.05 Max; Si: 0.15 Min)
 Heat Yield Tensile Elong Deform Heat Yield Tensile Elong Deform
 I.D. No. (psi) (psi) in 8" Bend Lb/Ft Height I.D. No. (psi) (psi) in 8" Bend Lb/Ft Height

120126-001	64,968	105,732	12.5%	OK	2.608	0.058	120126-241	66,369	104,586	12.5%	OK	2.573	0.055
120126-009	64,076	110,701	13.3%	OK	2.590	0.060	120126-249	72,994	107,134	14.1%	OK	2.600	0.061
120126-017	72,994	117,834	12.5%	OK	2.550	0.058	120126-257	69,045	103,949	15.6%	OK	2.585	0.059
120126-025	78,217	121,656	10.9%	OK	2.555	0.058							
120126-033	75,541	116,178	14.9%	OK	2.550	0.060							
120126-041	71,338	107,389	12.5%	OK	2.545	0.056							
120126-049	65,096	108,280	10.9%	OK	2.570	0.059							
120126-057	68,408	112,994	10.9%	OK	2.565	0.062							
120126-065	79,873	119,236	9.4%	OK	2.573	0.056							
120126-073	77,452	115,541	12.5%	OK	2.583	0.055							
120126-081	72,866	105,987	15.6%	OK	2.553	0.058							
120126-089	78,344	112,229	12.5%	OK	2.550	0.060							
120126-097	68,662	101,019	15.6%	OK	2.538	0.060							
120126-105	88,535	122,293	9.4%	OK	2.563	0.065							
120126-113	64,204	96,561	14.1%	OK	2.573	0.061							
120126-121	64,586	108,535	10.9%	OK	2.553	0.063							
120126-129	67,134	101,529	14.1%	OK	2.548	0.062							
120126-137	83,567	116,561	12.5%	OK	2.560	0.055							
120126-145	75,287	99,873	10.9%	OK	2.565	0.064							
120126-153	76,815	115,924	9.4%	OK	2.580	0.066							
120126-161	64,586	97,580	13.3%	OK	2.550	0.061							
120126-169	65,223	104,459	15.6%	OK	2.565	0.061							
120126-177	62,930	102,038	12.5%	OK	2.550	0.060							
120126-185	78,089	119,108	10.9%	OK	2.555	0.058							
120126-193	75,414	112,229	10.9%	OK	2.565	0.054							
120126-201	67,771	110,064	14.1%	OK	2.560	0.065							
120126-209	65,223	97,834	13.3%	OK	2.580	0.059							
120126-217	80,510	115,924	10.9%	OK	2.565	0.058							
120126-225	61,529	99,618	12.5%	OK	2.598	0.059							
120126-233	66,879	111,720	10.9%	OK	2.583	0.056							



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