



January 4, 2012

**CERTIFICATE OF COMPLIANCE**

As indicated on the Mill Test Reports, I certify that all the manufacturing processes of Cascade Steel Rolling Mills, Inc. occurred in the United States of America. Certifications that do not indicated "Made in America" are made from steel purchased outside the United States.

Our structural products conform to ASTM A36-08 as indicated on test reports. The steel shipped is in fact composed of the heats indicated on the Mill Test Report and is represented by results obtained from heat samples tested in accordance with ASTM A6-11 and ASTM A36-08 specifications for sampling, chemical analysis, physical testing and measuring.

CHEMICAL REQUIREMENTS	Shapes	Bars		
		To 3/4" incl.	Over 3/4" to 1 1/2" incl	Over 1 1/2" to 4" incl.
Element Max %				
Carbon	0.26	0.26	0.27	0.28
Manganese	n/a	n/a	0.60-0.90	0.60-0.90
Phosphorus	0.04	0.04	0.04	0.04
Sulfur	0.05	0.05	0.05	0.05
Silicon	0.40 max	0.40 max	0.40 max	0.40 max
TENSILE REQUIREMENTS	Shapes	Bars		
		To 3/4" incl.	Over 3/4" to 1 1/2" incl	Over 1 1/2" to 4" incl.
Yield Strength, min, psi	36000	36000	36000	36000
Tensile Strength, min, psi	58000	58000	58000	58000
Tensile Strength, max, [MPa]	80000	80000	80000	80000
Elongation in 8 in. min %	26	20	20	20

Thomas E. Murphy  
 Customer Technical Services Manager  
 Cascade Steel Rolling Mills, Inc.