

A B C Testing Inc.

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MECHANICAL TEST REPORT

ABC Testing number: 117007 Date: December 10, 2007
 Customer: L.B. Foster Company Purchase order: per transmittal - W. Burkowski
 Code or Standard: ASTM E-8, ASTM E-23, AWS D1.5 & W1.5SSCM
 PQR #, Heat #, or other: SAW-1-2007
 Material & Dimensions: 1 inch thick plate (ASTM A709, Grade 50W)
 Remarks: Impact tests: -20 degrees F

BEND TESTS

Type and Figure	Result
Transverse Side - Figure 5.11	Acceptable
Transverse Side - Figure 5.11	Acceptable
Transverse Side - Figure 5.11	Acceptable
Transverse Side - Figure 5.11	Acceptable

TENSILE TESTS

Type & Figure: Transverse Rectangular - Figure 5.10

Specimen	Width (inches)	Thickness (inches)	Area (sq. in.)	Ultimate Load (pounds)	Ultimate Strength (PSI)	Type of Failure
A	0.983	0.987	0.980	81,400	82,220	Duct - BM
B	0.933	0.982	0.916	78,600	85,789	Duct - BM

Type & Figure: Round (all weld metal) - Figure 5.9

Specimen	Diameter (inches)	Area (sq. inches)	Yield Load (pounds)	Tensile Load (pounds)	Yield Strength (PSI)	Tensile Strength (PSI)
WM1	0.806	0.201	12,000	15,350	59,676	76,334
WM2	0.806	0.200	12,000	15,150	59,917	75,638
Gage length (inches)	New length (inches)	% elongation	New diameter (inches)	Reduced Area (sq. inches)	% RA	
WM1	2.014	2.637	30.53	0.278	0.061	69.82
WM2	2.014	2.680	32.08	0.275	0.059	70.35

IMPACT TESTS

Type & Figure: Type A - Figure 5.13

Specimen	1	2	3	4	5	average **
	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)
Value	59	44	36	69	24	45.33

**discard the highest and lowest values and average the remaining values

All tests were conducted in accordance with the referenced standard.

By: James E. Hamington Jr.