



CERTIFIED MILL TEST REPORT

Customer # 000320

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Long Products Group
Structural and Rail Division
601 S. Clardy Road 700 East
Columba City, Indiana 46725
(260) 825-4100 (260) 625-8950 FAX

Quality Steel 100% EAF Melted and Manufactured in the USA /
Recycled content: PC = 88.0%, PI = 27.0%
SO 9001:2015 and ABS Certified
MTR complies with EN 10204 3.1.

GENERAL INFORMATION

Product Wide Flange Beam
Size W6X18
Heat Number B190139
Condition(s) As-Rolled
Fine Grained
Fully Killed
No Weld Repair

SPECIFICATIONS

Standards
* ASTM A992/A992M - 20
ASTM A5A/A5M - 19
ASTM A572/A572M - 18
ASTM A709/A709M - 18
AASHTO M270/M270 - 20
CSA G40 21-13
ASTM A36/A36M - 19

SHIPMENT DETAILS

Grade*
A992 / A992M
Bundle / ASN #
061391638
061391642
061391644
061391636
Length 40' 0"
pcs 12
Cust PO / Job/Reference SSW117552
SSW117552
SSW117552
SSW117552

CHEMICAL ANALYSIS (weight percent)

C	Mn	P	S	Si	Cu	NI	Cr	Mo	Sn	V	Nb/Cb	Al	N	B	*CE1	*CE2	*CE3	*PCM	*I	Analysis Type
.06	1.05	.013	.030	.24	.27	.10	.13	.04	.010	.023	.003	.002	.0123	.0002	.30	.338	.26	.15	5.50	Heat

MECHANICAL TESTING

Test	Yield (fy) Strength ksi / MPa	Tensile (fu) Strength ksi / MPa	fy / fu ratio	% Elong. (8" gage)
1	57 / 395	74 / 510	.76	27
2	56 / 385	73 / 505	.77	26
3				
4				

CHARPY IMPACT TESTS (available only when specified at time of order)

Test	Temp F / C	Absorbed Energy ft-lbf / J	Specimen 1	Specimen 2	Specimen 3	Average	Minimum
1							
2							
3							
4							
5							
6							
7							

NOTES:
1. Charpy Impact Testing: CE1 (100% Charpy), CE2 (100% Charpy), CE3 (100% Charpy), CE4 (100% Charpy), CE5 (100% Charpy), CE6 (100% Charpy), CE7 (100% Charpy), CE8 (100% Charpy), CE9 (100% Charpy), CE10 (100% Charpy), CE11 (100% Charpy), CE12 (100% Charpy), CE13 (100% Charpy), CE14 (100% Charpy), CE15 (100% Charpy), CE16 (100% Charpy), CE17 (100% Charpy), CE18 (100% Charpy), CE19 (100% Charpy), CE20 (100% Charpy), CE21 (100% Charpy), CE22 (100% Charpy), CE23 (100% Charpy), CE24 (100% Charpy), CE25 (100% Charpy), CE26 (100% Charpy), CE27 (100% Charpy), CE28 (100% Charpy), CE29 (100% Charpy), CE30 (100% Charpy), CE31 (100% Charpy), CE32 (100% Charpy), CE33 (100% Charpy), CE34 (100% Charpy), CE35 (100% Charpy), CE36 (100% Charpy), CE37 (100% Charpy), CE38 (100% Charpy), CE39 (100% Charpy), CE40 (100% Charpy), CE41 (100% Charpy), CE42 (100% Charpy), CE43 (100% Charpy), CE44 (100% Charpy), CE45 (100% Charpy), CE46 (100% Charpy), CE47 (100% Charpy), CE48 (100% Charpy), CE49 (100% Charpy), CE50 (100% Charpy), CE51 (100% Charpy), CE52 (100% Charpy), CE53 (100% Charpy), CE54 (100% Charpy), CE55 (100% Charpy), CE56 (100% Charpy), CE57 (100% Charpy), CE58 (100% Charpy), CE59 (100% Charpy), CE60 (100% Charpy), CE61 (100% Charpy), CE62 (100% Charpy), CE63 (100% Charpy), CE64 (100% Charpy), CE65 (100% Charpy), CE66 (100% Charpy), CE67 (100% Charpy), CE68 (100% Charpy), CE69 (100% Charpy), CE70 (100% Charpy), CE71 (100% Charpy), CE72 (100% Charpy), CE73 (100% Charpy), CE74 (100% Charpy), CE75 (100% Charpy), CE76 (100% Charpy), CE77 (100% Charpy), CE78 (100% Charpy), CE79 (100% Charpy), CE80 (100% Charpy), CE81 (100% Charpy), CE82 (100% Charpy), CE83 (100% Charpy), CE84 (100% Charpy), CE85 (100% Charpy), CE86 (100% Charpy), CE87 (100% Charpy), CE88 (100% Charpy), CE89 (100% Charpy), CE90 (100% Charpy), CE91 (100% Charpy), CE92 (100% Charpy), CE93 (100% Charpy), CE94 (100% Charpy), CE95 (100% Charpy), CE96 (100% Charpy), CE97 (100% Charpy), CE98 (100% Charpy), CE99 (100% Charpy), CE100 (100% Charpy).
2. I hereby certify that the material described herein has been made to the applicable specification by the electric arc furnace/continuous cast process and tested in accordance with the requirements of American Bureau of Shipping Rules with satisfactory results.

Signed: _____

ABS CERTIFICATION

I hereby certify that the content of this report are accurate and correct. All tests and operations performed by the material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated requirements.

State of Indiana, County of Whitley Sworn to and subscribed before me

Signed: **Valoree Varick**

Quality Manager

Valoree Varick

Signed: _____

Notary Public

My commission expires: _____

ASTM A6 - 14.6: A signature is not required on the test report; however, the document shall clearly identify the organization submitting the report.
Notwithstanding the absence of a signature, the organization submitting the report is responsible for the content of the report.