



Long Products Group
Structural and Rail Division
31 S. County Road 700 East
Lumbia City, Indiana 48725
(317) 625-8100 (260) 625-8650 FAX
Quality Steel 100% EAF Melted and Manufactured in the USA Attn: Gabe Siegel (800-675-9929)
O 8001:2015 and ABS Certified
MTR complies with EN 10204 3.1.

CERTIFIED MILL TEST REPORT

Customer # 000320

Houston TX, 77029 US
Attn: Accounts Payable

Houston TX, 77213 US
Attn: Accounts Payable

Printed: 12 / 01 / 2023
Produced: 10 / 11 / 2023

GENERAL INFORMATION

Product Wide Flange Beam
Size W30X148
W760X220
Heat Number B235757
Condition(s) As-Rolled
Fine Grained
Fully Killed
No Weld Repair

SPECIFICATIONS

Standards

ASTM A6/A6M - 22
ASTM A992/A992M - 22
ASTM A572/A572M - 21
ASTM A709/A709M - 21
AASHTO M270M/M270 - 20
ASTM A36/A36M - 19

Grades

A992 / A992M
A572 gr50/gr345
A709 gr50/gr345
M270 gr345/gr60
A36 / A36M

SHIPMENT DETAILS

BOL # 0000801392 - 11840.00 lbs

Bundle / ASN #	Length	pcs	Cust PO	Job/Ref	Part/Ref
023339802	40' 0"	1	A794311SD		
023339801	40' 0"	1	A794311SD		

CHEMICAL ANALYSIS (weight percent)

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Nb/Cb	Al	N	B	*CE1	*CE2	*CE3	*I	Analysis Type
.08	1.29	.013	.020	.23	.32	.12	.15	.03	.013	.038	<.001	.002	.0126	.0002	.37	.406	.32	5.82	Heat

MECHANICAL TESTING

Test	Yield (fy)		Tensile (fu)		Elong. (8" gage)
	ksi / MPa	ksi / MPa	ksi / MPa	ksi / MPa	
1	57 / 395	75 / 515	.76	.26	
2	56 / 385	77 / 530	.73	.22	
3					
4					

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

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

Notes: *Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corrosion Index (I) (ASTM G101) = 26.01(Cu)+3.88(Ni)+1.20(Cr)+1.49(Si)+17.29(P)+7.29(Cu)(Ni)-9.10(Ni)(P)-33.38(Cu)
CE1 (IIP) = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/16 CE2 (AWS) = C+(Mn+Si)/8+(Cr+Mo+V)/5+(Ni+Cu)/15 CE3 (CET) = C + (Mn/6) + (Si/24) + (Cr/5) + (Ni/40) + (Mo/4) + (V/14)

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:

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

Signed: **Doug Blomeke** *[Signature]*
Form F-6100-002-054 rev. 8 Quality Manager

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

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

Signed: My commission expires:

Notary Public