Date: 1/5/2024 To: SENTRY SUPPLY dba SO#: A799803 Ln#: 1 PO#: PO246375 Part: W0501920* Qty: 1 Heat#: a231678*
Tag: B07010524

Steel Dynamics, Inc.
Long Products Group
Structural and Rail Division
01 S. County Road 700 East
lumbia City, Indiana 46725
i0) 625-8100 (260) 625-8950 FAX

uality Steel 100% EAF Melted and Manufactured in the USA
O 9001:2015 and ABS Certified
MTR complies with EN 10204 3.1.

CERTIFIED MILL TEST REPORT

Printed: 08 / 21 / 2023
Produced: 07 / 20 / 2023

Ship to:
Customer pick up
Hammond IN, 46327 US
Attn: Receiving

Customer # 000320

Bill to:
Houston TX, 77213 US
Attn: Accounts Payable

GENERAL INFORMATION

Product	Wide Flange Beam
Size	W5X19
	W130X28.1
Heat Number	A231678
Condition(s)	As-Rolled
	Fine Grained
	Fully Killed
	No Weld Repair

SPECIFICATIONS

Standards	Grades
ASTM A6/A6M - 21	
» ASTM A992/A992M - 22	A992 / A992M
ASTM A572/A572M - 21	A572 gr50/gr345
ASTM A709/A709M - 21	A709 gr50/gr345
AASHTO M270M/M270 - 20	M270 gr345/gr50
CSA G40.21-13	50WM/345WM
ASTM A36/A36M - 19	A36 / A36M

SHIPMENT DETAILS

BOL # 0000786077 - 9120.00 lbs

Bundle / ASN #	Length	pcs	Cust PO	Job/Ref	Part/Ref
061908407	40' 0"	12	SSW137761		

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	1.06	.010	.010	.24	.26	.10	.11	.03	.013	.035	<.001	.003	.0092	.0002	.32	.356	.28	5.37	Heat

MECHANICAL TESTING

Test	Yield (fy) Strength ksi / MPa	Tensile (fu) Strength ksi / MPa	fy / fu ratio	% Elong. (8" gage)
1	60 / 415	77 / 530	.78	24
2	60 / 415	76 / 525	.79	24
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: *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)-33.39(Cu²)
CE1 (IIW)=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15 CE2 (AWS)=C+(Mn+Si)/6+(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 pecification by the electric arc furnace/continuous cast process and tested in accordance ith the requirements of American Bureau of Shipping Rules with satisfactory results.

Signed:

ABS CERTIFICATION

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 equirements of the material specifications and applicable purchaser designated requirements.

Signed: **Doug Blomeke**
Quality Manager

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

this day of

Signed: Notary Public

My commission expires:

Form F-6100-002-054 rev 8

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