

CERTIFIED MILL TEST REPORT

Customer # 000058

Bill to:
Steel & Pipe Supply - Kansas
555 Poyntz Avenue
PO Box 1688
Manhattan KS, 66505 US

Ship to:
Steel & Pipe Supply
4750 West Marshall Ave
Longview TX, 75604 US
Attn: Receiving

SDI Steel Dynamics, Inc.
Long Products Group
Structural and Rail Division
2601 S. County Road 700 East
Columbia City, Indiana 46725
(260) 625-8100 (260) 625-8950 FAX

Quality Steel 100% EAF Melted and Manufactured in the USA
ISO 9001:2015 and ABS Certified
CMTR complies with EN 10204 3.1.

SHIPMENT DETAILS BOL # 0000746389 - 19600.00 lbs

Bundle / ASN #	Length	pcs	Cust PO	Job/Ref	Part/Ref
023216994	40' 0"	4	4500540477		
023216999	40' 0"	2	4500540477		
023216984	40' 0"	4	4500540477		

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

GENERAL INFORMATION

Product Wide Flange Beam
Size W10X49
W250X73
Heat Number A221023 *
Condition(s) As-Rolled
Fine Grained
Fully Killed
No Weld Repair

*SDI-MULTI meets the requirements of ASTM A992, A572-50, A709-50, A529-50, A36 and A709-36; AASHTO M270-50 and M270-36; CSA 300W, 345W and 350W.

CHEMICAL ANALYSIS (weight percent)

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Nb/Cb	AI	N	B	*CE1	*CE2	*CE3	*I	Analysis Type
.08	1.21	.012	.018	.33	.43	.18	.16	.05	.010	.049	<.001	.003	.0137	.0003	.37	.429	.31	6.03	Heat

MECHANICAL TESTING

Test	Yield (fy)		Tensile (fu)		% Elong. {8" gage}
	ksi / MPa	ksi / MPa	ksi / MPa	ksi / MPa	
1	63 / 435	77 / 530	77 / 530	77 / 530	.82
2	62 / 425	79 / 545	79 / 545	79 / 545	.79
3					
4					

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(Cu)²
CE1 ((W)-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

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: _____

I 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: **Valoree Varick** *Valoree Varick*
Quality Manager

Signed: _____ My commission expires: _____
Notary Public

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