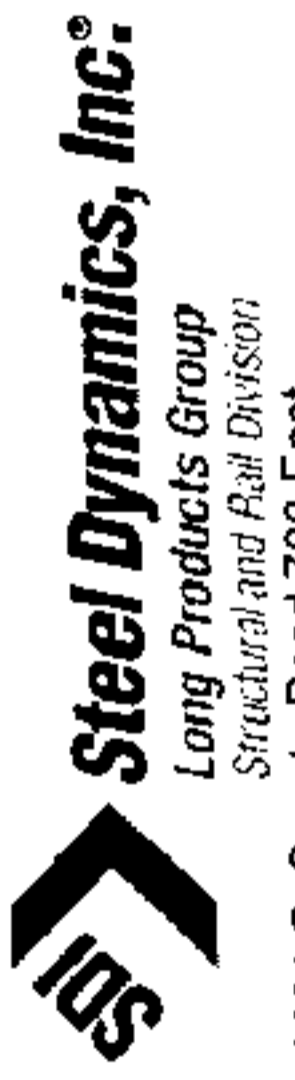


CERTIFIED MILL TEST REPORT

Customer # 000058



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.

GENERAL INFORMATION		SPECIFICATIONS		SHIPMENT DETAILS	
		Standards		BOL # 0000741141 - 28160.00 lbs	
Product	Wide Flange Beam	ASTM A6/A6M - 21		Bundle / ASN #	Job/Ref
Size	W10X22	» ASTM A992/A992M - 20		Length	pcs
Heat Number	W250X32.7	ASTM A572/A572M - 21		Cust PO	Job/Ref
Condition(s)	A218378 *	ASTM A709/A709M - 21		Length	pcs
	As-Rolled	AASHTO M270/M270 - 20		Cust PO	Job/Ref
	Fine Grained	CSA G40.21-13		Length	pcs
	Fully Killed	ASTM A36/A36M - 19		Cust PO	Job/Ref
	No Weld Repair	A36 / A36M		Length	pcs

*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	Analysis Type
.08	1.07	.007	.012	.20	.21	.08	.11	.02	.006	.034	<.001	Heat

MECHANICAL TESTING							CHARPY IMPACT TESTS (available only when specified at time of order)						
Test	Yield (fy)		Tensile (fu)		% Elong.		Temp	Absorbed Energy			Minimum		
	ksi / MPa	ksi / MPa	ksi / MPa	ksi / MPa	8" gage	F / C		Specimen 1	Specimen 2	Specimen 3		Average	
1	62 / 425	78 / 540	.80	.80	28								
2	61 / 420	77 / 530	.80	.80	29								
3													
4													

Notes: *Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corrosion Index (ASTM G101) = 26.01(Cu)+3.88(Ni)+1.20(Cr)+1.48(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
Notary Public
State of Indiana, County of Whitley Sworn to and subscribed before me
this _____ day of _____
Signed: _____ My commission expires: _____