

2601 S. County Road 700 East
 Columbia City, Indiana 46725
 (260) 625-8100 (260) 625-8950 FAX

 Longview/Greggton Station
 Track #746
 Longview TX, 75604 US
 Attn: Receiving

 PO Box 1688
 Manhattan KS, 66505 US

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	
Product	Wide Flange Beam	Standards		Grades*	
Size	W10X45	» ASTM A992/A992M - 20		A992 / A992M	
	W250X67	ASTM A6/A6M - 21			
Heat Number	B215570	ASTM A572/A572M - 21		A572 gr50/gr345	
Condition(s)	As-Rolled	ASTM A709/A709M - 21		A709 gr50/gr345	
	Fine Grained	AASHTO M270M/M270 - 20		M270 gr345/gr50	
	Fully Killed	CSA G40.21-13		50WM/345WM	
	No Weld Repair	ASTM A36/A36M - 19		A36 / A36M	
		*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.			
		BOL # 0000731239 - 21600.00 lbs			
Bundle / ASN #	Length	pcs	Cust PO	Job/Ref	Part/Ref
061723038	40' 0"	4	4500535403		
061723040	40' 0"	4	4500535403		
061723028	40' 0"	4	4500535403		

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
.06	1.23	.016	.016	.23	.34	.10	.16	.03	.018	.033	<.001	.003	.0077	.0004	.34	.377	.29	5.89	Heat

MECHANICAL TESTING					CHARPY IMPACT TESTS (available only when specified at time of order)					
Test	Yield (fy) Strength	Tensile (fu) Strength	fy / fu ratio	% Elong. {8" gage}	Test	Temp	Absorbed Energy		Average	Minimum
	ksi / MPa	ksi / MPa				F / C	ft-lbf / J	Specimen 1		
1	56 / 385	73 / 505	.76	28	1					
2	57 / 395	73 / 505	.78	28	2					
3					3					
4					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 {(IIV)=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: **Valoree Varick**

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**

Quality Manager

ABS CERTIFICATION

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

this _____ day of _____

Signed: _____ My commission expires: _____

Notary Public