

CERTIFIED MILL TEST REPORT

P.O. 64989

GENERAL INFORMATION		SPECIFICATIONS		SHIPMENT DETAILS	
Product	Wide Flange Beam	Standards	Grades*	BOL # 0000670950 - 18000.00 lbs	
Size	W8X18	▶ ASTM A992/A992M - 20	A992 / A992M	Bundle / ASN #	Length pcs Cust PO Job/Reference
	W200X26.8	ASTM A6/A6M - 19		061506994	50' 0" 12 20794
Heat Number	B198957	ASTM A572/A572M - 21	A572 gr50/gr345	061506989	50' 0" 8 20794
Condition(s)	As-Rolled	ASTM A709/A709M - 18	A709 gr50/gr345	<i>6140-50</i>	
	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.			

CHEMICAL ANALYSIS (weight percent)

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Nb/Cb	Al	N	B	*CE1	*CE2	*CE3	*PCM	*I	Analysis Type
.07	1.01	.018	.029	.20	.41	.11	.15	.03	.014	.022	.001	.002	.0144	.0004	.31	.347	.27	.16	5.92	Heat

MECHANICAL TESTING

Test	Yield (fy) Strength	Tensile (fu) Strength	fy / fu ratio	% Elong. {8" gage}	CHARPY IMPACT TESTS (available only when specified at time of order)															
	ksi / MPa	ksi / MPa			Temp F / C	Absorbed Energy ft-lbf / J	Specimen 1	Specimen 2	Specimen 3	Average	Minimum									
1	53 / 365	69 / 475	.77	26	1															
2	52 / 360	70 / 485	.74	27	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)+1.48(Si)+17.29(P)-7.29(Cu)(Ni)-9.10(Ni)(P)-33.39(Cu)²
CE1 (IIW) = C+Mn/8+(Cr+Mo+V)/5+(Ni+Cu)/15 CE2 (AWS) = C+(Mn+Si)/5+(Cr+Mo+V)/5+(Ni+Cu)/15 CE3 (CET) = C + (Mn/8) + (Si/24) + (Cr/5) + (Ni/40) + (Mo/4) + (V/14)
Pcm(AWS) = C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+mo/15+V/10+5B

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: _____

ABS CERTIFICATION

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

State of Indiana, County of Whitley Sworn to and subscribed before me
this _____ day of _____
Signed: _____ My commission expires: _____
Notary Public