

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 US
ISO 9001:2015 and ABS Certified
CMTR complies with EN 10204 3.1.

GENERAL INFORMATION	SPECIFICATIONS	SHIPMENT DETAILS												
Product Wide Flange Beam Size W12X87 W310X129 Heat Number A219971 Condition(s) As-Rolled Fine Grained Fully Killed No Weld Repair	Standards » ASTM A992/A992M - 20 ASTM A6/A6M - 21 ASTM A572/A572M - 21 ASTM A709/A709M - 21 AASHTO M270M/M270 - 20 CSA G40.21-13 ASTM A36/A36M - 19 <small>*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.</small>	Grades* A992 / A992M A572 gr50/gr345 A709 gr50/gr345 M270 gr345/gr50 50WM/345WM A36 / A36M BOL # 0000745601 - 10440.00 lbs												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Bundle / ASN #</th> <th>Length</th> <th>pcs</th> <th>Cust PO</th> <th>Job/Ref</th> <th>Part/Ref</th> </tr> </thead> <tbody> <tr> <td>023205590</td> <td>60' 0"</td> <td>2</td> <td>4500540490</td> <td></td> <td></td> </tr> </tbody> </table>	Bundle / ASN #	Length	pcs	Cust PO	Job/Ref	Part/Ref	023205590	60' 0"	2	4500540490		
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023205590	60' 0"	2	4500540490											

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	1.32	.010	.019	.23	.25	.11	.16	.04	.012	.044	<.001	.003	.0111	.0004	.37	.411	.33	5.39	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	Specimen 1	Specimen 2	Specimen 3		
1	57 / 395	73 / 505	.78	27	1						
2	58 / 400	75 / 515	.78	26	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 {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)

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

