## CEXITED MILL IESI KETOKI

FIIIIEG. US / 13 / 2022

Produced: 08 / 08 / 2022

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Long Products Group
Structural and Rail Division
31 S. County Road 700 East
lumbia City, Indiana 46725 i0) 625-8100 (260) 625-8950 FAX

uality Steel 100% EAF Melted and Manufactured in the USA

O 9001:2015 and ABS Certified WTR complies with EN 10204 3.1.

GENE	RAL IN	GENERAL INFORMATION	NOIT	KO	SPECIFICATIONS Standar	CATIONS Standards	IS lards				Grades*	SHIPMENT		DETAILS	<sub>B</sub>	BOL # 0000733476 - 8480.00 lbs	3476 - 848	0.00 lbs	
70	Product	WideF	Wide Flange Beam	3	; A <b>A</b>	ASTM A6	ASTM A6/A6M - 21	3		A000 / A000A	2002	Bundle / ASN #	ASN#	Length	pcs C	pcs Cust PO	Job/Ref	ef.	Part/Ref
	Size	W14X53	63 1470	<del></del>	AS:	TM A572	ASTM A572/A572M - 21	21	Þ	A572 gr50/gr345	)/gr345	061724313	24313	40' 0"	4 9	4 SSW130407			
leat N	leat Number	B215599	599		AS	TM A709	ASTM A709/A709M - 21	21	<b>&gt;</b>	A709 gr50/gr345	)/gr345								
Condi	Condition(s)	As-Rolled	led		AAS	GSA G40 21-13	AASHTO M270M/M270 - 20 CSA G40 21-13	- 20	. 7	M270 gr345/gr50 50W/M/345WM	15/gr50								
		Fully Killed	Fully Killed		Ą	STM A36	ASTM A36/A36M - 19	9		A36 / A36M	36M								
		No We	No Weld Repair	*SE	DI-MULTI me 3 and A709-	eets the re 36; AASH	quirements TO M270-5	of ASTM A	\992, A572 0-36; CSA	:-50, A709- 300W, 349	*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.								
CHEN	IICAL A	SKTWN	CHEMICAL ANALYSIS (weight percent)	t percen	(1														
ဂ	N S	ס	တ	S	Cu	Z	ਨ	<b>™</b>	Sn	<	Nb/Cb	<u>&gt;</u>	z	W	*CE1	*CE1 *CE2 *CE3	*CE3	<u>*</u>	Analysis Type
.07	1.24	.013	.026	.28	.36	≒	<u>.</u>	<b>2</b>	.014	.033	<.001	.003	.0063	.0002	.34	.391	.30	5.93	Heat
(ECH	ANICAL	ECHANICAL TESTING	NG					CHAR	PY IMP	ACT T	CHARPY IMPACT TESTS (available only when specified at time of order)	ilable onl	v when	specified	at time	of order)		-	
	Yield (fy)	<b>€</b> €	Tensile (fu)	(E)	,				Temp	Abs	Absorbed Energy	y fi-lo	ft-lbf/J	•		,			
Tost			inginano	5 9	<b>₹</b> /±		% Elong.	Test	F/C		Specimen 1	Specimen 2		Specimen 3	Average		Minimum		
- lave	KSI / MFa	3 3	KSI / MPa	a Pa	ratio	:	(8" gage)	_											
_	34/3/0	3/0	///530	330	./		22	Ν.											
N	59 / 405	405	77 / 530	30	.76		27	ω											
ယ								4											
4								U											
								6											
								7											
E1 (IIW)	*Calculate +C+Mn/6+(C	d Chemistry ir+Mo+V)/5+i	\frac{100fes: Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corosion Index (I \frac{100fes} C+Mn/6+(C+M0+V)/5+(Ni+Cu)/15 CE2 (AWS)=C+Mn+Si)/8+(C;+M0+V)/5+(Ni+Cu)/15	n Equivale E2 (AWS)=	nts (C1, C2, C	)3, PC), Co +(Cr+Mo+V)	rrosion Index /5+(Ni+Cu)/1	(I) (ASTM C	3101}= 26.0 =T} = C + (M	1(Cu)+3.88(i ln/6) + (Si/24	*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(C+Mn/8+(Cr+Mo+V)/5+(NI+Cu	9(Si)+17.29(P)- 0) +(Mo/4) + (V		Cu)(Ni)-9.10(Ni)(P)-33.39(Cu²)	39(Cu²)				
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hereby certify that the material described herein has been made to the applicable pecification by the electric arc furnace/continuous cast process and tested in accordance orm F-6100-002-054 rev 8 Quality Manager equirements of the material specifications and applicable purchaser designated requirements. perations performed by this material manufacturer are in compliance with the ith the requirements of American Bureau of Shipping Rules with satisfactory results. Signed: hereby certify that the content of this report are accurate and correct. All tests and Valoree Varick Signed: Signed: this **ABS CERTIFICATION** State of Indiana, County of Whitley Sworn to and subscribed before me Notary Public day of My commission expires: