



CERTIFIED MATERIAL TEST REPORT

US-ML-MIDLOTHIAN
 300 WARD ROAD
 MIDLOTHIAN, TX 76065
 USA

		GRADE A992/A572-50		SHAPE / SIZE Wide Flange Beam / 8 X 15# / 200 X 22.5		DOCUMENT ID: 0000886111	
		LENGTH 20'00"		PCS 48	WEIGHT 14,400 LB		HEAT / BATCH 59107953/03
SALES ORDER 12523248/000070		CUSTOMER MATERIAL N° 00000000378150020		SPECIFICATION / DATE or REVISION ASTM A6-17 ASTM A709-21 GR50 ASTM A992-20, A572-21 CSA G40.21-13 345WM, 50W			
CUSTOMER PURCHASE ORDER NUMBER 4500542704		BILL OF LADING 1327-0000510727		DATE 01/27/2023			

CHEMICAL COMPOSITION													
C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	Ni (%)	Cr (%)	Mo(%)	Sn (%)	V (%)	Nb (%)	Al (%)	CEqvA6 (%)
0.09	0.90	0.006	0.018	0.21	0.26	0.11	0.12	0.026	0.006	0.000	0.012	0.001	0.30

MECHANICAL PROPERTIES								
YS 0.2% (PSI)	UTS (PSI)	YS (MPa)	UTS (MPa)	Y/T rati (%)	G/L (Inches)	G/L (mm)	Elong. (%)	
53886	70803	372	488	0.760	8.000	200.0	26.50	
53390	70183	368	484	0.760	8.000	200.0	26.50	

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of the company. We certify that these data are correct and in compliance with specified requirements. No weld repair was performed on this material. The material has not been in contact with mercury while in Gerdau possession. For all products other than billets or beam blanks, this material was produced (Electric Arc Furnace, Melted, Continuously Cast, Hot Rolled and, if applicable, Cold-Drawn) in the USA. For billets or beam blanks, this material was produced (Electric Arc Furnace, Melted and Continuously Cast) in the USA. CMTR complies with EN 10204 3.1.

Bhaskar
 BHASKAR YALAMANCHILI
 QUALITY DIRECTOR

Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com

Wade A. Lumpkins
 WADE LUMPKINS
 QUALITY ASSURANCE MGR.

Phone: 972-779-3118 Email: Wade.Lumpkins@gerdau.com



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Table with 4 main sections: Material Properties (Grade, Shape/Size, Length, PCS, Weight, Heat/Batch), Identification (Sales Order, Customer Material N°), Specification (ASTM A6-17, ASTM A709-21 GR50, ASTM A992-20, A572-21, CSA G40.21-13 345WM, 50W), and Administrative (Customer Purchase Order Number, Bill of Lading, Date).

Table with 15 columns for Chemical Composition: C (%), Mn (%), P (%), S (%), Si (%), Cu (%), Ni (%), Cr (%), Mo(%), Sn (%), V (%), Nb (%), Al (%), CEqvA6 (%). Values range from 0.08 to 0.32.

Table with 10 columns for Mechanical Properties: YS 0.2% (PSI), UTS (PSI), YS (MPa), UTS (MPa), Y/T rati (%), G/L (Inches), G/L (mm), Elong. (%). Values range from 57065 to 25.50.

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QUALITY DIRECTOR

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