

**CERTIFIED MATERIAL TEST REPORT**



**GERDAU**

US-ML-CARTERSVILLE  
384 OLD GRASSDALE ROAD NE  
CARTERSVILLE, GA 30121  
USA

CUSTOMER SHIP TO LONGVIEW, TX 75604-4817 USA		CUSTOMER BILL TO MANHATTAN, KS 66505-1688 USA		GRADE A992/A572-50	SHAPE / SIZE Wide Flange Beam / 12 X 22# / 310 X 32.7	DOCUMENT ID 0000660515
SALES ORDER 13465421/000020		CUSTOMER MATERIAL N° 000000003712220060		LENGTH 60'00"	PCS 8	WEIGHT 10,560 LB
CUSTOMER PURCHASE ORDER NUMBER 4500561547		BILL OF LADING 1323-0000252938		DATE 12/01/2023		
SPECIFICATION / DATE or REVISION ASTM A6-17 ASTM A709-21 GR50 ASTM A992-20, A572-21 CSA G40.21-13 345WAL 50W						
HEAT / BATCH 55089989/02						

CHEMICAL COMPOSITION												
C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	Sn (%)	V (%)	Nb (%)	CEqvA6 (%)
0.08	0.98	0.013	0.015	0.28	0.28	0.13	0.10	0.035	0.012	0.002	0.008	0.30

MECHANICAL PROPERTIES						
YS 0.2% (PSI)	UTS (PSI)	YS (MPa)	UTS (MPa)	Y/T ratio (%)	G/L (Inches)	Elong. (%)
54600	70900	377	489	0.770	8.000	25.50
54800	70600	378	487	0.780	8.000	25.70

COMMENTS / NOTES

Gerda's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit [www2.gerdau.com/metals-recycling](http://www2.gerdau.com/metals-recycling), or contact [metalsrecycling@gerdau.com](mailto:metalsrecycling@gerdau.com).

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.

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