

Bill To: FERRECABSA SA DE CV  
217 ROJIBELIN DESP. 404  
COL. NOCHE BUENA  
MEXICO CITY

DF MX

Ship To: 1  
FERRECABSA SA DE CV  
12018 AUBURN RD.  
LAREDO  
78045

TX US

Order Date: 07/12/2004  
PO No: 07112  
Mill Order No: 2792176  
Load No: 303555  
Manifest No: 1629106

**CERTIFIED MATERIAL TEST REPORT**  
**CHAPARRAL STEEL**  
300 Ward Rd.  
Midlothian, TX  
76065-9651  
(972) 775-8241

SIZE  
W 21 X 57#

GRADE  
992/572-50

279176-1  
LENGTH  
40 FT

PRODUCT  
WF BEAMS

SPECIFICATIONS  
ASTM A6-02, A992-02, A572-01

HEAT NO: 22248800

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.12	.89	.008	.041	.23	.30	.10	.08	.029	.008	.001	.004	.014	.32

CHEMICAL ANALYSIS

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test		ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%
53.9	371.6	72.6	500.6	0.979	6.32	28.3	8 In	200 mm		
52.3	360.6	71.9	495.7	0.960	6.19	26.5	8 In	200 mm		

MSD 21 X 6 1/2

All manufacturing processes of this product, including electric arc melting and continuous casting, occurred in the U.S.A.

"I hereby certify that the contents of this report are correct and accurate. All tests and operations performed by this material manufacturer or its sub-contractors, when applicable, are in compliance with the requirements of the material specifications and applicable purchaser designated requirements."

Signed: Tom L. Harrington Quality Assurance Date: Sep. 20, 2004 Signed: Notary P IC (if applicable) Date: \_\_\_\_\_  
Page: 3 of 3