

Bill To:
 BROWN-STRAUSS STEEL
 ACCOUNTS PAYABLE - STEEL
 2495 URAVAN STREET
 AURORA
 80011

Ship To: 132
 Brown Strauss Steel
 150 Panel Way
 Track# 521 Spur Via Longview
 LONGVIEW
 98632
 CO US

Order Date: 07/17/2007
 PO No: 55655
 Mill Order No: 3339916
 Load No: 1127868
 Manifest No: 1844106

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

SPECIFICATIONS
 ASTM A6-05, A36-05, A572-06, A992-06
 8 X 11.5 CHANNELS / C 200 X A36/A57250

GRADE
 50 FT / 15.24 M

PRODUCT
 CHANNELS

HEAT NO: 22412320

SI OK

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sh	V	Al	Nb	CE
.09	.93	.006	.024	.18	.36	.22	.16	.050	.010	.001	.004	.019	.33

PHYSICAL PROPERTIES

Yield Strength		Tensile strength		Specimen Area		Elongation		Bend Test		ROA
KSI	Mpa	KSI	Mpa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%
57.4	395.8	70.3	484.7	0.345	2.23	23.7	8 In	200 mm		
57.1	393.7	70.5	486.1	0.340	2.19	23.8	8 In	200 mm		

Remarks

MEETS REQUIREMENTS OF AISC TECH BULLETIN #3 - MARCH, 1997

H K X Q

All manufacturing processes of this product, including electric arc melting and continuous casting, occurred in the U.S.A.
 CMTR complies with DIN EN 10204 3.1.1.B

"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 Date: Aug. 22, 2007 Signed: _____ Date: _____
 Tom L. Harrington: Quality Assurance Manager

Notary Public (if applicable) _____ Date: _____
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