

Bill To:  
 GERDAU CORSA S A P I DE CV  
 KM 3 CARRETERA MEXICO-  
 CD SAHAGUN S/N  
 SAHAGUN HG  
 43990 MX

Ship To: 1  
 GERDAU CORSA S A P I DE CV  
 402 GRAND CENTRAL BLVD  
 MILO DISTRIBUTION CENTER TX  
 LAREDO US  
 78045

Order Date:  
 PO No:  
 Mill Order No:  
 SAP Shpmnt No:

**CERTIFIED MATERIAL TEST REPORT**



**GERDAU**  
 Midlothian Mill  
 300 Ward Road  
 Midlothian, TX 76065  
 (972) 775-8241

**SPECIFICATIONS**  
 ASTM A6-09, A992-06a, A572-07

|                        |            |                  |          |
|------------------------|------------|------------------|----------|
| SIZE                   | GRADE      | LENGTH           | PRODUCT  |
| W 16 X 45# / W410 X 67 | 992/572-50 | 40 FT / 12.192 M | WF BEAMS |

HEAT NO: 22608290

| <u>CHEMICAL ANALYSIS</u> |     |      |      |     |     |     |     |      |      |      |      |      |     |
|--------------------------|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| C                        | Mn  | P    | S    | Si  | Cu  | Ni  | Cr  | Mo   | Sn   | V    | Al   | Nb   | CE  |
| .09                      | .92 | .010 | .027 | .26 | .31 | .09 | .09 | .029 | .012 | .001 | .003 | .024 | .29 |

PHYSICAL PROPERTIES

| <u>Yield Strength</u> |       | <u>Tensile Strength</u> |       | <u>Specimen Area</u> |       | <u>Elongation</u> |             | <u>Bend Test</u> |        | <u>ROA</u> |
|-----------------------|-------|-------------------------|-------|----------------------|-------|-------------------|-------------|------------------|--------|------------|
| KSI                   | MPa   | KSI                     | MPa   | Sq In                | Sq cm | %                 | Gage Length | Dia.             | Result | %          |
| 55.0                  | 379.2 | 73.9                    | 509.5 | 0.795                | 5.13  | 24.1              | 8 In 200 mm |                  |        |            |
| 55.1                  | 379.9 | 74.3                    | 512.3 | 0.779                | 5.03  | 24.2              | 8 In 200 mm |                  |        |            |

TENSILE TEST RATIOS

YLD/TENS  
 .74

Remarks

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A. CMTR complies with EN 10204 3.1 -- "M" prefix HT# on shipping doc identifies production before 4/1/2012 conversion to SAP.

"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: Jan. 10, 2013  
 Tom L. Harrington: Quality Assurance Manager

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Notary Public (if applicable)