



**ACEROS CORSA**

**Aceros Corsa, S.A. DE C.V.**

AV. LA PRESA No. 2 COL. SAN JUAN IXHUATEPEC  
 C.P. 54180 TLALNEPANTLA, ESTADO DE MEXICO  
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VENDIDO A:

ACEROS TICOMAN S.A DE C.V.  
 COLONIA TICOMAN, C.P. 07130  
 CALLE A# 1957, NO. 8  
 MEXICO, D.F.

EMBARCADO A: 514

SIDERSTUL S A DE C V  
 AV. HIDALGO  
 XOCOYARUALCO  
 TLALNEPANTLA  
 ESTADO DE MEXICO

No. Ext. 16

FECHA: 2009/02/09 F. - 30560

**Certificado de Calidad**

| No. | MATERIAL                              | No. COLADA | CALIDAD ACERO | ANALISIS QUIMICO |      |      |      |      |      |      | PROPIEDADES MECANICAS |                 |                 |
|-----|---------------------------------------|------------|---------------|------------------|------|------|------|------|------|------|-----------------------|-----------------|-----------------|
|     |                                       |            |               | % C              | % Mn | % P  | % S  | % Si | % V  | % Nb | ESFUERZO MAXIMO       | LIMITE ELASTICO | % DE ELONGACION |
| 1   | ANGULO 3/16" X 2 1/2" X 20" A-36 G-50 | 046823     | ASTM529050    | .20              | 1.10 | .017 | .029 | .25  | .002 | .020 | 81,000                | 57,100          | 20.70           |
| 2   | ANGULO 3/16" X 2 1/2" X 20" A-36 G-50 | 046824     | ASTM529050    | .21              | 1.11 | .017 | .027 | .24  | .002 | .000 | 81,900                | 57,300          | 20.70           |
| 3   | ANGULO 3/16" X 2 1/2" X 20" A-36 G-50 | 046825     | ASTM529050    | .25              | 1.15 | .018 | .028 | .26  | .006 | .000 | 88,500                | 58,400          | 21.70           |
| 4   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 5   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 6   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 7   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 8   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 9   |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 10  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 11  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 12  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 13  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 14  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |
| 15  |                                       |            |               |                  |      |      |      |      |      |      |                       |                 |                 |

AP4030-0660-500

Ing. Fernando FAVERA

APROBACION

GESTION DE LA CALIDAD