



**CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO /
CERTIFICATE MATERIAL TEST REPORT**

| | |
|-------------------------------------|-----------------|
| No. Certificado/ Certificate No: | 8042 - 10428818 |
| Fecha/ Date: | 10-Ago-2013 |

49822

| Ace Ramos | | CARRETERA MONCLOVA KM 4 NUMERO 2125, TRA | | | | RAMOS ARIZPE, COAHUILA | |
|-----------------------------------|-------------------------|--|--|-------------------------|----------|---|--------------------------|
| DATOS DEL CLIENTE / CUSTOMER DATA | | | DATOS DEL CONSIGNADO / CONSIGNE DATA | | | DATOS DEL EMBARQUE / SHIPPING INFORMATION | |
| Cliente/ Customer: | FERRE BARNIEDO SA DE CV | | Cliente/ Customer: | FERRE BARNIEDO SA DE CV | | Num. Viaje/ Travel No: | 8042 |
| Dirección/ Address: | AVE. REVOLUCION 81 | | Dirección/ Address: | AVE. REVOLUCION 81 | | Remisión/ Invoice No: | 43007905 |
| Ciudad/ City: | ECATEPEC | Estado/ State: | EDO. DE MEXICO | Ciudad/ City: | ECATEPEC | Estado/ State: | ECATEPEC, EDO. DE MEXICO |
| Teléfono/ Phone: | 555-836-1028 y | Pais/ Country: | | C.P./ ZIP: | 55024 | Pedido/ Customer Order No: | 10428818 |
| Correo Electrónico/ eMail: | | | PRODUCTO TERMINADO/ FINISHING PRODUCT | | | Num. Plan/ Shipping: | 9125 |
| | | | | | | Fecha Embarque/ Shipping Date: | 10-Ago-2013 |

| COMPOSICION QUIMICA (% en Peso) / CHEMICAL COMPOSITION (% weight) | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-----------------|----------------------------------|----------------------|------|------|------|-------|-------|------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| Colada/ Heat | Secuencia/ Sequence | Clave / Code | Producto / Description of Goods | Calibre/ Diameter | %C | %Mn | %Si | %P | %S | %Cu | %Cr | %Ni | %Mo | %Sn | %Ti | %N2 | %V | %Nb | %CE |
| 53342 | 5056 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 6" x 5/8" | 0.22 | 0.82 | 0.19 | 0.008 | 0.015 | 0.11 | 0.0514 | 0.0344 | 0.143 | 0.0072 | 0.0010 | 0.0093 | 0.0050 | 0.0000 | 0.3631 |
| 53344 | 5055 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 6" x 5/8" | 0.22 | 0.81 | 0.19 | 0.008 | 0.015 | 0.11 | 0.0514 | 0.0344 | 0.143 | 0.0072 | 0.0010 | 0.0096 | 0.0054 | 0.0000 | 0.3602 |
| 53374 | 5052 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 6" x 5/8" | 0.16 | 0.68 | 0.19 | 0.009 | 0.016 | 0.12 | 0.0652 | 0.0658 | 0.178 | 0.0080 | 0.0010 | 0.0094 | 0.0026 | 0.0000 | 0.2815 |

| PROP. FISICAS / PHYSICAL TEST | | | | | | | | | | |
|-------------------------------|------------------------|-------|----------------------------------|----------|----------|--------------------|----------|--|-----------------------------------|--------------------|
| Colada/ Heat | Secuencia/ Sequence | Clave | Producto / Description of Goods | RT/TS | | f _y /Ys | | Elongación en % de 8 pulgadas / Elongation in % of 8 inches | Prueba de Dobleces / Bend Test | Paquetes / Bundles |
| | | | | Kg / mm2 | Psi | Kg/mm2 | Psi | | | |
| 53342 | 5056 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 47.4 | 67,858.2 | 31.2 | 44,820.0 | 36 | Cumple | 1 |
| 53344 | 5055 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 51.4 | 73,042.5 | 33.4 | 55,847.7 | 39 | Cumple | 1 |
| 53374 | 5052 | 60245 | SOLERA 6" x 5/8" A-36 6.10m 2.0T | 49.1 | 69,700.0 | 33.4 | 47,463.4 | 38 | Cumple | 1 |

FERRE BARNIEDO S.A. DE C.V.
 ESTE CERTIFICADO DE NUESTROS ARCHIVOS
 DEL ORIGINAL DE REMISION NO. ventas@ferrebarniedo.com.mx
 AMPARA LA REMISION NO. 58-36-10-00

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación del acero aplicables a la ASTM A36-2008, A529-2005 (Aprobada 2009), A572-2012 y A572-2011 y a las normas dimensionales NMX B 252; ASTM A6/A6M-2012, cumpliendo con los resultados.

Aseguramiento de Calidad / Certification
Ing. Javier Vargas Soto