



TERNIUM MEXICO, S.A. DE C.V.
R.F.C. TME-840710-TR4
 Av. Universidad No. 992, Colonia Cuauhtémoc, San Nicolás de los Garza, N.L., Código Postal 66450
 Teléfonos: +52(81)8329-8500
 www.ternum.com

Código cliente/ Customer ID:
 0000000093

Cliente/ Customer:
FERRE BARNIEDO, S.A. DE C.V.
 AVE. REVOLUCION 81
 ECATEPEC DE MORELOS
 MEX. México
 55024

CERTIFICADO DE CALIDAD / MILL TEST CERTIFICATE (EN10204 3.1 – ISO 10474 3.1B)

Fecha de Emisión /Date of Issue (DMA) 07/03/2013

No./ Document number 0082272779



0082272779

Pedido No./ Sales order: 0001448568
 Orden de compra/ Purchase order: 100694

Remisión/ Delivery: 0082272779

Medio de Transporte/ Means of transportation: Tracto Full

Descripción de mercaderías/ Goods description

R-101-PINTRO S/A GR33 PST/FDO S/P

FERRE BARNIEDO, S.A. DE C.V.
ESTE ORIGINAL DE NUESTROS ARCHIVOS,
ES COPIA FIDELMENTE.
TEL: 81-8329-1000
ventas@ferrebarniedo.com.mx

| Datos Generales / General Data | | | | | | | | | |
|--------------------------------|-------------|-----------------------|-------------|---------------------------|-------------|--------------|--------------------|------------------|-----|
| No. Rollo/Coil id. | Colada/Heat | Recubrimiento/Coating | Peso/Weight | Espesor/Thickness mm / in | Ancho/Width | Largo/Length | Capa/Thickness | | |
| | | | kg | mm / in | mm / in | m | oz/in ² | g/m ² | |
| 0011122571 | 1301188580 | PINTRO | 2172 | 0.54 / 0.0214 | 48.03 | 12.00 | 2.44 | | G60 |
| 0011122534 | 1301188580 | PINTRO | 2000 | 0.54 / 0.0214 | 48.03 | 12.00 | 3.65 | | G60 |

| Datos Generales / General Data | | | | | | |
|--------------------------------|-------------|-----------|----------------|-----------------------------------|-------------------------------|-------------|
| No. Rollo/Coil id. | Colada/Heat | TS/ST (1) | No. Parte/Part | Descripción | Norma de Calidad/Quality Norm | Grado/Grade |
| 0011122571 | 1301188580 | N/A | N/A | R-101 PINTRO S/A GR33 PST/FDO S/P | ASTM A653 1 SS 33 | N/A |
| 0011122534 | 1301188580 | N/A | N/A | R-101 PINTRO S/A GR33 PST/FDO S/P | ASTM A653 1 SS 33 | N/A |

| Calidad del Acero / Steel Quality (Propiedades Mecánicas Longitudinales) | | | | | | |
|--|-------------|-------------|------|-----------------------|------------|--|
| No. Rollo/Coil id. | Colada/Heat | LE / YP (2) | | RT/TS (3) | | |
| | | Mpa | KSI | % Elong. / Elongation | | |
| 0011122571 | 1301188580 | 296 | 43.0 | 35 | 441 / 64.0 | |
| 0011122534 | 1301188580 | 296 | 43.0 | 35 | 441 / 64.0 | |

| Calidad del Acero / Steel Quality | | |
|-----------------------------------|-------------|---------------------------|
| No. Rollo/Coil id. | Colada/Heat | Dureza HRBW/Hardness HRBW |
| 0011122571 | 1301188580 | |
| 0011122534 | 1301188580 | |

1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled, etc
 2. LE: Límite elástico / YP: Yield Point
 3. RT: Resistencia a la tensión / TS: Tensile Strength
 4. HRBW: Rockwell B Indentador de WCV
 5. L/LL Limite Inferior / Lower Limit
 6. LS/U/L Limite Superior / Upper Limit

Observaciones / Comments

C.I. / ID #
 Firma / Signature

Antonio Mani

Ing. Antonio Mani
 Ternium Labs

Certificamos que el material aquí descrito ha sido inspeccionado y ensayado por personal autorizado independiente del área de manufactura con resultados satisfactorios en concordancia con la norma arriba descrita. Propiedades Mecánicas bajo las normas ASTM A370 EA, E18, E517, E564, EN-10002, según requerimiento y peso de capa bajo ASTM A90 Análisis Químico bajo la norma ASTM E 415 / 1019 / A751.
 We have certify that the material described in here has been tested and inspected by authorized personal independent from the manufacturing department with satisfactory results in accordance with requirements of the above specification Mechanical Properties as ASTM A370 EA, E18, E517, E564, EN-10002, as required and coating weight with ASTM A90 Chemical Analysis as ASTM E 415 / 1019 / A751.



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**CERTIFICADO DE CALIDAD /
MILL TEST CERTIFICATE
(EN10204 3.1 – ISO 10474 3.1B)**

**Fecha de Emisión /Date of Issue
(DMA) 07/03/2013**

**No./ Document number
0082272779**



0082272779

| | | |
|------------|------------|----|
| 0011122571 | 1301188580 | 49 |
| 0011122534 | 1301188580 | 49 |

| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Cu | Ni | Cr | Mo | V | Cb | Ti | N |
| 0011122571 | 1301188580 | 0.045 | 0.165 | 0.004 | 0.003 | 0.034 | 0.014 | 0.016 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 |

| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Cu | Ni | Cr | Mo | V | Cb | Ti | N |
| 0011122534 | 1301188580 | 0.045 | 0.165 | 0.004 | 0.003 | 0.034 | 0.014 | 0.016 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 |

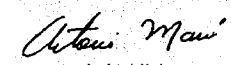
| Calidad de Pintura / Painting Quality — Cara Inferior / Bottom Side | | | | | | |
|---|-------------|-------------|------------|-----------------------|----------------|----------------------------|
| No. Rollo/Coil id. | Colada/Heat | Tipo / Type | Color | Capa / Film Thickness | Brillo / Gloss | Flexibilidad / Flexibility |
| 0011122571 | 1301188580 | | GRIS FONDO | 0.4000 | 45 | N/A |
| 0011122534 | 1301188580 | | GRIS FONDO | 0.4000 | 45 | N/A |

| Calidad de Pintura / Painting Quality — Cara Superior / Top Side | | | | | | | | | | | |
|--|-------------|-------------|------------|-------------|-----------------------|----------------|----------------------------|-------------------|--------------------------------|--------------|---------------------------------|
| No. Rollo/Coil id. | Colada/Heat | Tipo / Type | Color | Poliuretano | Capa / Film Thickness | Brillo / Gloss | Flexibilidad / Flexibility | Tono / Color (dE) | Dureza Lápiz / Pencil Hardness | Curado / MDR | Norma de Calidad / Quality Norm |
| 0011122571 | 1301188580 | | BLANCO STD | N/A | 0.7000 | 33 | 2T | 0.20 | HR5H | 100.00 | N/A |
| 0011122534 | 1301188580 | | BLANCO STD | N/A | 0.7000 | 33 | 2T | 0.20 | HR5H | 100.00 | N/A |

FERRE BARNIEDO S.A.
ESTE CERTIFICADO DE NUESTROS
DEL ORIGINAL DE NUESTROS
AMPARA LA REMISION No. _____
TEL 58-36-10-00
ventas@ferrebarniedo.com

COPIA FIEL
 ARCHIVOS

- 1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled, etc
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- 3. RT: Resistencia a la tensión / TS: Tensile Strength
- 4. HRBW: Rockwell B Indentador de WC
- 5. L/LI: Límite Inferior / Lower Limit
- 6. LS/UL: Límite Superior / Upper Limit

| | |
|--|--|
| Observaciones / Comments <small> Certificaciones que el material aquí descrito ha sido inspeccionado y ensayado por personal autorizado independiente del área de manufactura con resultados satisfactorios en concordancia con la norma arriba descrita. Propiedades Mecánicas bajo las normas ASTM A370 E8, E18, E57, E646, EN-10002, según requerimiento y peso de capa bajo ASTM A390 Análisis Químico bajo la norma ASTM E 415 / 1019 / A751 We have certify that the material described in here has been tested and inspected by authorized personal independent from the manufacturing department with satisfactory results in accordance with requirements of the above specification Mechanical Properties as ASTM A370 E8, E18, E57, E646, EN-10002, as required and coating weight with ASTM A390 Chemical Analysis as ASTM E 415 / 1019 / A751 </small> | C.I. / ID # Firma / Signature  <small>Ing. Antonio Mani Ternium Labs</small> |
|--|--|