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CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST AND ANALYSIS

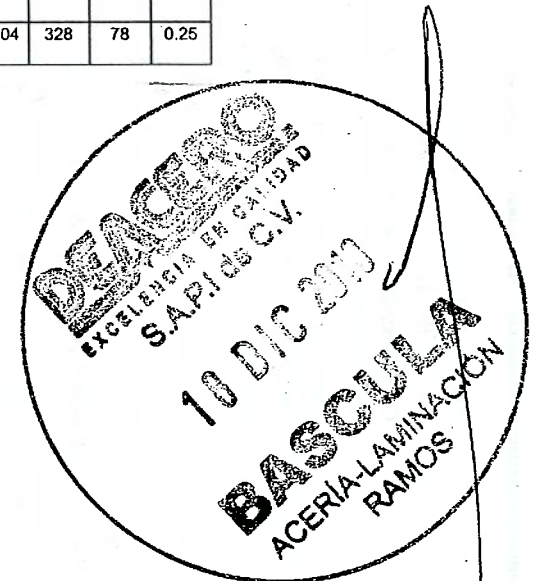
| | |
|-----------------------------------|-------------------|
| No. Certificado / Certificate No: | 134318 - 21847174 |
| Fecha / Date: | 18/12/2018 |

Hecho en México / Made in Mexico

| DATOS DEL CLIENTE / SOLD TO | | CLIENTE CONSIGNADO / SHIP TO | | DATOS DEL EMBARQUE / SHIPPING INFORMATION | |
|--|--------------------------------|---|--------------------------------|---|--|
| Cliente / Customer: PLESA ANAHUAC Y CIAS SA DE CV | | Cliente / Customer: MATRIZ TULTITLAN | | Núm. Viaje / Travel No: 134318 | |
| Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 SAN FRANCISCO CHILPAN | | Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 66 SAN FRANCISCO CHILPAN | | Núm. Factura / Invoice No: FQ76227 | |
| Ciudad / City: TULTITLAN | Estado / State: EDO. DE MEXICO | Ciudad / City: TULTITLAN | Estado / State: EDO. DE MEXICO | Pedido / Customer Order No: 21847174 | |
| Teléfono / Phone: 10838570 | | País / Country: MEXICO C.P./ZIP 54940 | | Núm. Plan / Shipping Plan: 143521 | |
| Correo Electrónico / eMail: | | | | Fecha Embarque / Date: 18/12/2018 | |
| | | | | Orden de Compra / Purchase Order: 27793 | |

| COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT) | | | | | | | | | | | | | | | | | | | |
|--|----------------------|--------------|--|------|------|------|-------|-------|------|------|------|-------|-------|-------|--------|--------|-------|------|-----|
| Colada / Heat | Secuencia / Sequence | Clave / Code | Producto / Description of Goods | % C | % Mn | % Si | % P | % S | % Cu | % Cr | % Ni | % Mo | % Sn | % Ti | % V | PPM Nb | PPM N | CE | |
| | | | | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| 33525 | 302 | 60281 | ANGULO LI 1" x 1" x 1/8" A-36 P 6.10m 1.1T | 0.21 | 0.72 | 0.23 | 0.010 | 0.010 | 0.28 | 0.07 | 0.07 | 0.019 | 0.013 | 0.001 | 0.0045 | 26 | 112 | 0.35 | |
| 32633 | 38771 | 60297 | ANGULO LI 4" x 4" x 1/4" A-36 P 6.10m 2.0T | 0.21 | 0.91 | 0.21 | 0.009 | 0.004 | 0.19 | 0.06 | 0.06 | 0.018 | 0.020 | 0.009 | 0.0105 | 100 | 84 | 0.38 | |
| 32784 | 38861 | 78031 | VIGA R 8" x 21.0 A992/A572-50 12.20m 4.0T | 0.08 | 1.03 | 0.22 | 0.007 | 0.004 | 0.11 | 0.05 | 0.07 | 0.013 | 0.008 | 0.010 | 0.004 | 325 | 84 | 0.27 | |
| 32785 | 38862 | 78031 | VIGA R 8" x 21.0 A992/A572-50 12.20m 4.0T | 0.08 | 1.00 | 0.23 | 0.008 | 0.005 | 0.10 | 0.04 | 0.04 | 0.011 | 0.006 | 0.012 | 0.004 | 328 | 78 | 0.25 | |

| PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES | | | | | | | | | | | | |
|---|----------------------|--------------|--|--------------------|-------------------|--------|---------|-----------------|--------|---------|-----------------------|--|
| Colada / Heat | Secuencia / Sequence | Clave / Code | Producto / Description of Goods | Calibre / Diameter | Cantidad / Bundle | RT | TS | % Elong / Elong | LF | YS | P. Doblez / Bend Test | |
| | | | | | | kg/mm² | PSI | AVG | kg/mm² | PSI | AVG | |
| 33525 | 302 | 60281 | ANGULO LI 1" x 1" x 1/8" A-36 P 6.10m 1.1T | 1" x 1" x 1/8" | 5 | 51.6 | 73483.7 | 31.0 | 38.1 | 54230.5 | Cumple / Successfully | |
| 32633 | 38771 | 60297 | ANGULO LI 4" x 4" x 1/4" A-36 P 6.10m 2.0T | 4" x 4" x 1/4" | 1 | 53.6 | 76386.6 | 32.7 | 37.3 | 53106.3 | Cumple / Successfully | |
| 32784 | 38861 | 78031 | VIGA R 8" x 21.0 A992/A572-50 12.20m 4.0T | 8" x 21.0 | 4 | 53.9 | 76770.8 | 30.5 | 43.3 | 61644.3 | Cumple / Successfully | |
| 32785 | 38862 | 78031 | VIGA R 8" x 21.0 A992/A572-50 12.20m 4.0T | 8" x 21.0 | 4 | 53.8 | 76628.5 | 32.9 | 43.5 | 62028.5 | Cumple / Successfully | |



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 (re aprobada el 2009), A572-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A6/A6M-2012. / We certify that this material has been produced, inspected and tested according to standards applicable steelmaking to ASTM A36-2008, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012



GUSTAVO GABRIEL MANCILLA GARZA
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager