



Acería Ramos Arizpe
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 TRAMO SANTA CRUZ OJO CALIENTE
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EXCELENCIA EN CALIDAD

**CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST
 AND ANALYSIS**

| | |
|--------------------------------------|-------------------|
| No. Certificado / Certificate No: | 143842 - 22002964 |
| Fecha / Date: | 10/05/2019 |

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: 143842 |
| 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: FQ83161 |
| Ciudad / City: TULTITLAN | Estado / State: EDO. DE MEXICO | Ciudad / City: TULTITLAN | Estado / State: EDO. DE MEXICO |
| Teléfono / Phone: 10838570 | Pais / Country: MEXICO C.P./ZIP 54940 | | Pedido / Customer Order No: 22002964 |
| Correo Electrónico / eMail: | | | Núm. Plan / Shipping Plan: 153618 |
| | | | Fecha Embarque / Date: 10/05/2019 |
| | | | Orden de Compra / Purchase Order: 28147 |

| 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 | PPM Nb | PPM N |
| | | | | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| 35283 | 41624 | 78026 | VIGA R 8" x 18.0 A992/A572-50 12.20m 4.0T | 0.07 | 1.02 | 0.22 | 0.010 | 0.005 | 0.12 | 0.06 | 0.05 | 0.014 | 0.008 | 0.010 | 305 | 90 |
| 35286 | 41621 | 78026 | VIGA R 8" x 18.0 A992/A572-50 12.20m 4.0T | 0.08 | 1.01 | 0.25 | 0.007 | 0.004 | 0.10 | 0.05 | 0.04 | 0.011 | 0.006 | 0.010 | 330 | 88 |

| 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. Doble / Bend Test | |
| | | | | | | kg/mm ² | PSI | AVG | kg/mm ² | PSI | AVG | |
| 35283 | 41624 | 78026 | VIGA R 8" x 18.0 A992/A572-50 12.20m 4.0T | 8" x 18.0 | 4 | 53.6 | 76272.8 | 24.7 | 39.4 | 56094.6 | Cumple / Successfully | |
| 35286 | 41621 | 78026 | VIGA R 8" x 18.0 A992/A572-50 12.20m 4.0T | 8" x 18.0 | 1 | 53.6 | 76400.8 | 24.6 | 40.0 | 56991.1 | 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.



JUAN ALEJANDRO GALVAN GARCIA
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager