



**Acería Ramos Arizpe**  
 CARRETERA MONCLOVA KM 4 NUMERO 2125  
 TRAMO SANTA CRUZ OJO CALIENTE  
 C.P./ZIP RAMOS ARIZPE, COAHUILA  
 Tel/Phone (+52) 01 818 368 1111  
 MX 01 800 021 3322, USA 1800 332 2376

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

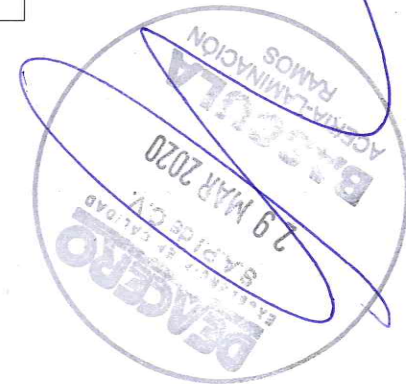
|                                      |                   |
|--------------------------------------|-------------------|
| No. Certificado /<br>Certificate No: | 170183 - 22607877 |
| Fecha / Date:                        | 29/03/2020        |

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: 170183            |
| 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: FQ102248       |
| Ciudad / City: TULTITLAN   | Estado / State: EDO. DE MEXICO | Ciudad / City: TULTITLAN  | Estado / State: EDO. DE MEXICO            |
| Teléfono / Phone: 10838570   |                                | País / Country: MEXICO C.P./ZIP 54940                                       |   |
| Correo Electrónico / eMail:  |                                | Pedido / Customer Order No: 22607877  |   |
|  |                                | Núm. Plan / Shipping Plan: 181688   |   |
|  |                                | Fecha Embarque / Date: 29/03/2020   |   |
|  |                                | Orden de Compra / Purchase Order: 29669                                     |   |

| COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT) |                         |                 |  |      |      |      |       |       |      |      |      |       |       |       |           |          |     |
|--|-------------------------|-----------------|--|------|------|------|-------|-------|------|------|------|-------|-------|-------|-----------|----------|-----|
| Colada /<br>Heat   | Secuencia /<br>Sequence | Clave /<br>Code | Producto / Description of Goods              | % C  | % Mn | % Si | % P   | % S   | % Cu | % Cr | % Ni | % Mo  | % Sn  | % Ti  | PPM<br>Nb | PPM<br>N |     |
|  |                         |                 |  | AVG  | AVG  | AVG  | AVG   | AVG   | AVG  | AVG  | AVG  | AVG   | AVG   | AVG   | AVG       | AVG      | AVG |
| 42007  | 46548                   | 63080           | VIGA R 6" x 12.0 A572-50/A992-50 12.20m 4.0T | 0.07 | 1.00 | 0.21 | 0.008 | 0.004 | 0.11 | 0.03 | 0.03 | 0.012 | 0.004 | 0.010 | 304       | 87       |     |
| 42013  | 46546                   | 63080           | VIGA R 6" x 12.0 A572-50/A992-50 12.20m 4.0T | 0.07 | 1.02 | 0.22 | 0.010 | 0.005 | 0.10 | 0.05 | 0.03 | 0.014 | 0.004 | 0.010 | 320       | 90       |     |

| PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES |                         |                 |  |                       |                      |                    |         |                    |                    |         |                          |  |
|---|-------------------------|-----------------|--|-----------------------|----------------------|--------------------|---------|--------------------|--------------------|---------|--------------------------|--|
| Colada /<br>Heat                              | Secuencia /<br>Sequence | Clave /<br>Code | Producto / Description of Goods              | Calibre /<br>Diameter | Cantidad /<br>Bundle | RT                 | TS      | % Elong /<br>Elong | LF                 | YS      | P. Doblez /<br>Bend Test |  |
|   |                         |                 |  |                       |                      | kg/mm <sup>2</sup> | PSI     | AVG                | kg/mm <sup>2</sup> | PSI     |                          |  |
|   |                         |                 |  |                       |                      | AVG                | AVG     | AVG                | AVG                | AVG     |                          |  |
| 42007   | 46548                   | 63080           | VIGA R 6" x 12.0 A572-50/A992-50 12.20m 4.0T | 6"                    | 4                    | 55.8               | 79456.0 | 31.5               | 43.5               | 62001.5 | Cumple /<br>Successfully |  |
| 42013   | 46546                   | 63080           | VIGA R 6" x 12.0 A572-50/A992-50 12.20m 4.0T | 6"                    | 3                    | 55.9               | 79548.5 | 34.0               | 45.7               | 65133.5 | Cumple /<br>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