



**CERTIFICADO DE PRUEBAS EN FABRICA**  
**CERTIFICADO DE PRUEBAS EN FABRICA**

Number / Número:

**12048445**

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Date / Día: **July 21, 2012**

Tubos de Acero de México, S.A.  
 Carreol, México Veracruz KM 433.7 SN  
 Delfino Valenzuela Tejeria, Veracruz, Veracruz  
 C.P. 91697 MEXICO  
 (52) 229 889 1100 tel  
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|  |                                  |  |  |   |
|--|----------------------------------|--|--|---|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIAS, S.A. DE C.V.</b>  |                                  | Customer's Order Item / Orden Cliente - Item:<br><b>N/A</b>                                    | Customer's Reference / Ref. del Cliente:<br><b>N/A</b>                           | Manufacturer's Works Order N° / Confirmación de Venta:<br><b>183014/01</b>  |
| Manufacturing Process / Proceso de Manufactura:<br><b>SEAMLESS HOT ROLLED</b><br><b>LAMINADO EN CALIENTE SIN COSTURA</b> |                                  | Product Type / Tipo de Producto:<br><b>LINE PIPE SEAMLESS</b><br><b>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED</b><br><b>BARNIZADO</b>   |
| Standard or Specification / Normas o Especificaciones:<br><b>API SPEC 5L, OCTOBER 1, 2007</b>                            |                                  |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                     | Ends / Extremos:<br><b>NORMAL BEVEL</b><br><b>BISELADO NORMAL</b>   |
| Dimensions / Dimensiones:<br><b>14.000 X 0.375 INCH</b><br><b>355.6 X 9.5 MM</b>   | Schedule / Cédula:<br><b>030</b> | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>43 Pcs/Pz</b><br><b>895.374 FT</b><br><b>272.910 MTS</b> | Nominal Weight / Peso Nominal:<br><b>49211.626 LB</b><br><b>22322.000 KG</b><br><b>54.62 LB/FT</b><br><b>81.08 KG/M</b> |

**TENSILE TEST / ENSAYO DE TENSION**

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Specimen condition<br>Condición de la probeta |    |              |     | Specimen dimensions<br>Dimensiones de la probeta |                        | Test temp<br>Temp. ensayo<br>°C | Y.S.<br>Eul 0.50 %. |                    | U.T.S.         | Y.S./U.T.S.<br>Req. Max. | Elongation / Alargamiento |      |      |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|---------------------------------|---------------------|--------------------|----------------|--------------------------|---------------------------|------|------|
|                      |                         | Ls  | Sc | Type<br>Tipo | Ori | Size<br>Tamaño<br>mm                             | Area<br>Sección<br>mm2 |                                 | Min: 290<br>Max: -  | Min: 415<br>Max: - | Req. Max.<br>- |                          | Lo                        | Min. | Obt. |
|                      |                         |   |    |              |     |  |                        |                                 |                     |                    |                |                          |                           |      |      |
| 53407                | 76736                   | B   | AM | Ss           | L   | 38.09 X 09.52                                    | 362,62                 | RT                              | 334                 | 508                | 0,66           | 2                        | 27.8                      | 41.0 |      |
| 60522                | 07220                   | B   | AM | Ss           | L   | 38.35 X 09.55                                    | 366,24                 | RT                              | 315                 | 498                | 0,63           | 2                        | 27.8                      | 42.0 |      |
| 60781                | 13474                   | B   | AM | Ss           | L   | 37.95 X 09.90                                    | 375,71                 | RT                              | 325                 | 496                | 0,66           | 2                        | 28.0                      | 42.0 |      |

|  |  |   |  |
|--|--|---|--|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | Ori: Orientation / Orientación                | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo                                   | Max: Maximum / Máximo                            | Req. Max: Required maximum / Máximo requerido | Ss: Strip specimen / Muestra rectangular         |
| L: Longitudinal / Longitudinal                     | Min: Minimum / Mínimo                            | Req: Required / Requerido                     | U.T.S: Ultimate tensile strength / Resistencia   |
| Lo: Initial length / Longitud inicial              | Obt: Obtained / Obtenido                         | RT: Room temperature / Temperatura ambiente   | Y.S: Yield strength / Fluencia                   |

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|  |  |  |  | Nominal Weight / Peso Nominal:<br><b>54.62 LB/FT<br/>81.08 KG/M</b> |  |   |  |

**CHEMICAL COMPOSITION / COMPOSICION QUIMICA**

|                      |                         | Composition % / Composición % |     |    |     |    |        |     |    |    |     |     |     |    |    |    |         |    |    |        |        |        |     |
|----------------------|-------------------------|-------------------------------|-----|----|-----|----|--------|-----|----|----|-----|-----|-----|----|----|----|---------|----|----|--------|--------|--------|-----|
|                      |                         | x 100                         |     |    |     |    | x 1000 |     |    |    |     |     |     |    |    |    | x 10000 |    |    | x 100  |        |        |     |
|                      |                         | C                             | Mn  | Si | Cr  | Mo | S      | P   | Ni | V  | Cu  | Al  | Sn  | As | Nb | Ti | Ca      | B  | N  | Col. 1 | Col. 2 | Col. 3 |     |
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | H                             | Max | 28 | 120 | -- | 40     | 15  | 30 | 30 | 400 | 80  | 400 | -- | -- | -- | --      | -- | -- | 6      | 100    | 15     |     |
|                      |                         | Min                           | --  | 29 | 10  | -- | --     | --  | -- | -- | --  | --  | --  | -- | -- | -- | --      | -- | -- | --     | --     | --     | --  |
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | P                             | Max | 28 | 120 | -- | 40     | 15  | 30 | 30 | 400 | 80  | 400 | -- | -- | -- | --      | -- | -- | 6      | 100    | 15     |     |
|                      |                         | Min                           | --  | 29 | 10  | -- | --     | --  | -- | -- | --  | --  | --  | -- | -- | -- | --      | -- | -- | --     | --     | --     | --  |
| 53407                | 00001                   | H                             | 20  | 83 | 23  | 8  | 5      | 0.6 | 5  | 60 | 0   | 120 | 26  | 10 | 4  | 0  | 5       | 11 | 0  | 64     | 0      | 31     | 0.5 |
| 53407                | 76736                   | P                             | 19  | 83 | 22  | 8  | 4.7    | 0.6 | 4  | 60 | 0   | 121 | 26  | 10 | 3  | 0  | 0       | 10 | 0  | 64     | 0      | 30.8   | 0   |
| 53407                | 76737                   | P                             | 20  | 83 | 22  | 8  | 4.9    | 1.2 | 5  | 60 | 0   | 119 | 25  | 10 | 4  | 0  | 0       | 10 | 0  | 64     | 0      | 30.8   | 0   |
| 60522                | 00001                   | H                             | 17  | 67 | 29  | 6  | 2.5    | 1.5 | 14 | 50 | 0   | 120 | 20  | 13 | 4  | 0  | 0       | 18 | 0  | 92     | 0      | 25.5   | 0   |
| 60522                | 07220                   | P                             | 18  | 67 | 29  | 6  | 2.6    | 1.1 | 13 | 50 | 0   | 128 | 21  | 13 | 4  | 0  | 0       | 17 | 0  | 35     | 0      | 26.4   | 0   |
| 60522                | 07221                   | P                             | 18  | 67 | 29  | 6  | 2.6    | 1.4 | 14 | 50 | 0   | 127 | 21  | 13 | 4  | 0  | 0       | 17 | 0  | 45     | 0      | 26.3   | 0   |
| 60781                | 00001                   | H                             | 17  | 67 | 29  | 9  | 4.4    | 1.8 | 8  | 60 | 0   | 133 | 23  | 8  | 4  | 0  | 0       | 13 | 0  | 80     | 0      | 32.7   | 0   |
| 60781                | 13474                   | P                             | 18  | 67 | 29  | 9  | 4.3    | 1.4 | 8  | 50 | 0   | 128 | 22  | 7  | 4  | 0  | 0       | 18 | 0  | 80     | 0      | 31.1   | 0   |
| 60781                | 13475                   | P                             | 18  | 68 | 29  | 8  | 4.3    | 1.2 | 7  | 50 | 0   | 128 | 23  | 7  | 3  | 0  | 0       | 15 | 0  | 80     | 0      | 30.1   | 0   |

Col. 1: SUMA Nb+V                      Col. 3: SUMA Nb+V+Ti                      Max: Maximum / Máximo                      P: Product / Producto  
 Col. 2: SUMA Mo+Cr+Ni+Cu+V                      H: Heat / Colada                      Min: Minimum / Mínimo

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| Dimensions / Dimensiones:<br><b>14.000 X 0.375 INCH</b><br><b>355.6 X 9.5 MM</b>   | Schedule / Cédula:<br><b>030</b> | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>43 Pcs/Pz</b><br><b>895.374 FT</b><br><b>272.910 MTS</b> | Nominal Weight / Peso Nominal:<br><b>49211.626 LB</b><br><b>22322.000 KG</b><br><b>54.62 LB/FT</b><br><b>81.08 KG/M</b> |

**THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR**

| Required values<br>Valores requeridos |                         | Individuals / Individuales |    |       |                 | Average / Promedio |      |      |      | Hardness type HRC<br>Tipo de dureza |      |      |      | Var. |      |      |      |      |
|---------------------------------------|-------------------------|----------------------------|----|-------|-----------------|--------------------|------|------|------|-------------------------------------|------|------|------|------|------|------|------|------|
| Heat N°<br>Colada N°                  | Sample N°<br>Muestra N° | Specimen condition         |    | Quad. | Scale<br>Escala | OD                 |      |      |      | MW                                  |      |      |      |      | ID   |      |      |      |
|                                       |                         | Ls                         | Sc |       |                 | 1                  | 2    | 3    | Avg. | 1                                   | 2    | 3    | Avg. |      | 1    | 2    | 3    | Avg. |
| 53407                                 | 76736                   | B                          | AM | 1     | HRBW            | 78.4               | 80.2 | 78.4 | 79.0 | 78.6                                | 80.4 | 79.0 | 79.3 | 78.2 | 77.7 | 78.3 | 78.1 | 1.3  |
| 53407                                 | 76737                   | B                          | AM | 1     | HRBW            | 78.7               | 77.6 | 78.6 | 78.3 | 78.4                                | 79.3 | 79.2 | 79.0 | 79.2 | 79.3 | 81.1 | 79.9 | 1.6  |
| 60522                                 | 07220                   | B                          | AM | 1     | HRBW            | 86.4               | 86.3 | 86.0 | 86.2 | 86.0                                | 86.9 | 85.9 | 86.3 | 86.5 | 85.6 | 86.0 | 86.0 | 0.2  |
| 60522                                 | 07221                   | B                          | AM | 1     | HRBW            | 85.3               | 85.0 | 85.8 | 85.4 | 85.7                                | 85.9 | 85.2 | 85.6 | 85.8 | 86.3 | 86.0 | 86.0 | 0.7  |
| 60781                                 | 13474                   | B                          | AM | 1     | HRBW            | 85.7               | 85.7 | 85.8 | 85.7 | 85.1                                | 85.7 | 85.8 | 85.5 | 85.4 | 84.4 | 85.0 | 84.9 | 0.8  |
| 60781                                 | 13475                   | B                          | AM | 1     | HRBW            | 85.1               | 86.0 | 85.2 | 85.4 | 86.0                                | 85.8 | 86.5 | 86.1 | 85.8 | 86.6 | 85.9 | 86.1 | 0.7  |

|  |  |   |  |
|--|--|---|--|
| AM: As manufactured / Según proceso de fabricación | ID: Internal diameter / Diámetro interno         | Min: Minimum / Mínimo                   | Quad: Quadrant / Cuadrante                       |
| Avg: Average / Promedio                            | Ls: Location of sample / Ubicación de la muestra | MW: Middle wall / Centro                | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo                                   | Max: Maximum / Máximo                            | OD: Outside diameter / Diámetro externo | Var: Variation / Variación                       |

**FLATTENING TEST / ENSAYO DE APLASTAMIENTO**

| Standard / Norma:    |                         |                     | Standard / Norma:    |                         |                     | Standard / Norma:    |                         |                     |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Result<br>Resultado | Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Result<br>Resultado | Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Result<br>Resultado |
| 53407                | 76736                   | Good / Bueno        | 60522                | 07220                   | Good / Bueno        | 60781                | 13474                   | Good / Bueno        |

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**HYDROSTATIC TEST / PRUEBA HIDRAULICA**

| Pressure / Presión |               | Time / Tiempo      |  | Results / Resultado |                              |
|--------------------|---------------|--------------------|--|---------------------|------------------------------|
| Unit / Unidad.     | Value / Valor | Seconds / Segundos |  |                     |                              |
| psi                | 1,920         | 5                  |  |                     | Satisfactory / Satisfactorio |

**HEAT TREATMENT / TRATAMIENTO TERMICO**

|   |                 |
|---|-----------------|
| Heat treatment / Tratamiento térmico: <b>Pipe / Tubo</b>  |                 |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: <b>Water / Agua</b> |                 |
| Temperature Scale / Escala de Temperatura: <b>celcius</b>   |                 |
| Type / Tipo   |                 |
|   | <b>asrolled</b> |

**SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA**

|   |  |
|---|--|
| Supplementary Information / Información Suplementaria   |  |
| Manufactured by TenarisTamsa<br>Steel making process:<br>Electric Arc Furnace-Ladle Furnace-Continuous Casting Machine.<br>Fully Killed Steel | Fabricado por TenarisTamsa<br>Fabricación del acero:<br>Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua.<br>Acero calmado con aluminio |

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| Manufacturing Process / Proceso de Manufactura:<br><b>SEAMLESS HOT ROLLED</b><br><b>LAMINADO EN CALIENTE SIN COSTURA</b> |  | Product Type / Tipo de Producto:<br><b>LINE PIPE SEAMLESS</b><br><b>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED</b><br><b>BARNIZADO</b>           |  | Ends / Extremos:<br><b>NORMAL BEVEL</b><br><b>BISELADO NORMAL</b>               |  |
| Standard or Specification / Normas o Especificaciones:<br><b>API SPEC 5L, OCTOBER 1, 2007</b>                            |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                                   |  | Quantity / Cantidad: <b>43 Pcs/Pz</b>                                   |  | Nominal Weight / Peso Nominal:  |  |
| Dimensions / Dimensiones:<br><b>14.000 X 0.375 INCH</b><br><b>355.6 X 9.5 MM</b>   |  | Schedule / Cédula:<br><b>030</b>   |  | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b> |  | <b>895.374 FT</b> <b>49211.626 LB</b><br><b>272.910 MTS</b> <b>22322.000 KG</b> |  |
|  |  |  |  |   |  | <b>54.62 LB/FT</b><br><b>81.08 KG/M</b>   |  |

**SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA**

| Supplementary Information<br>Información Suplementaria  |  |
|---|--|
| Material free from Mercury contamination<br>Not repaired by welding<br>Non destructive test. Satisfactory<br>Inspection method<br>. - EMI - FLVI - MPI -<br>API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,11/<br>ASTM A53,10/ASME SA106,2010<br>MATERIAL ACCORDING TO NACE MR0175-2003<br>Tamsa Ref: 267455 | Material libre de contaminación de Mercurio<br>No reparado por soldadura<br>Control no destructivo. Satisfactorio<br>Método de inspección<br>. - EMI - FLVI - MPI -<br>API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,11/<br>ASTM A53,10/ASME SA106,2010<br>MATERIAL DE ACUERDO A NACE MR0175-2003<br>Tamsa Ref: 267455 |

**SUMMARY REPORT / REPORTE RESUMEN**

| Heat N°<br>Colada N° | Quantity<br>Cantidad<br>(Pieces) | Length<br>Longitud |       | Weight<br>Peso<br>(Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
|                      |                                  | (ft)               | (m)   |                          |
| 53407                | 14                               | 293.21             | 89.37 | 7.303                    |
| 60522                | 4                                | 84.51              | 25.76 | 2.099                    |

| Heat N°<br>Colada N° | Quantity<br>Cantidad<br>(Pieces) | Length<br>Longitud |        | Weight<br>Peso<br>(Tons) |
|----------------------|----------------------------------|--------------------|--------|--------------------------|
|                      |                                  | (ft)               | (m)    |                          |
| 60781                | 25                               | 517.65             | 157.78 | 12.92                    |

| Average length per pipe<br>Longitud promedio por tubo |       | Nominal weight per pipe<br>Peso nominal por tubo |        |
|---|-------|--|--------|
| (ft)  | (m)   | (lb/ft)  | (kg/m) |
| 20.823  | 6.347 | 54.962   | 81.793 |

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**CERTIFICADO DE PRUEBAS EN FABRICA**  
**CERTIFICADO DE PRUEBAS EN FABRICA**

Number / Número:

**12048445**

Page / Página:

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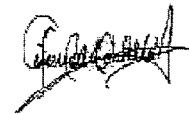
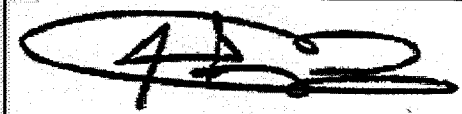
Date / Día: **July 21, 2012**

Tubos de Acero de México, S.A.  
 Carret. México Veracruz KM 433.7 SN  
 Delino Valenzuela Tejería, Veracruz, Veracruz  
 C.P. 91697 MEXICO  
 (52) 229 989 1100 tel  
 (52) 229 989 1600 fax

|  |                                  |  |  |  |
|--|----------------------------------|--|--|--|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIAS, S.A. DE C.V.</b>  |                                  | Customer's Order Item / Orden Cliente - Item:<br><b>N/A</b>                                    | Customer's Reference / Ref. del Cliente:<br><b>N/A</b>                           | Manufacturer's Works Order N° / Confirmación de Venta:<br><b>183014/01</b>   |
| Manufacturing Process / Proceso de Manufactura:<br><b>SEAMLESS HOT ROLLED</b><br><b>LAMINADO EN CALIENTE SIN COSTURA</b> |                                  | Product Type / Tipo de Producto:<br><b>LINE PIPE SEAMLESS</b><br><b>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED</b><br><b>BARNIZADO</b>  |
| Standard or Specification / Normas o Especificaciones:<br><b>API SPEC 5L, OCTOBER 1, 2007</b>                            |                                  |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                     | Ends / Extremos:<br><b>NORMAL BEVEL</b><br><b>BISELADO NORMAL</b>  |
| Dimensions / Dimensiones:<br><b>14.000 X 0.375 INCH</b><br><b>355.6 X 9.5 MM</b>   | Schedule / Cédula:<br><b>030</b> | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>43 Pcs/Pz</b><br><b>895.374 FT</b><br><b>272.910 MTS</b> | Norminal Weight / Peso Nominal:<br><b>49211.626 LB</b><br><b>22322.000 KG</b><br><b>54.62 LB/FT</b><br><b>81.08 KG/M</b> |

This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.

Por el presente certificamos que el material aquí descrito ha sido fabricado, muestreado, ensayado e inspeccionado de acuerdo a los requisitos de su orden de compra. Este certificado no es, ni puede ser usado, como una declaración de origen.

|  |  |   |  |
|--|--|---|--|
| <b>CUSTOMER . THIRD PARTY</b>                |  | <b>TENARIS QUALITY DEPARTMENT SIGNATURE</b>   |  |
| INSPECTION COMPANY<br>COMPAÑIA DE INSPECCIÓN |  |              |                                   |
| Company Name: N/A<br>Employee Name: N/A      |  | QUALITY CERTIFICATION DEPT.<br>DEPTO. DE CERTIFICACIÓN DE CALIDAD<br>Teresa M. Castellá Abraham | CHIEF OF QUALITY CERTIFICATION DEPT.<br>RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD<br>Ricardo Lozano Armenta |

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