



Ave. Guerrero  
No. 3725, rta.  
San Juan de los Rios  
Tulitlan, Edo. de Mexico  
C.P. 54940  
TEL: 3065555  
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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

|                            |  |                                  |                            |   |                             |                              |   |                                |                               |
|----------------------------|--|----------------------------------|----------------------------|---|-----------------------------|------------------------------|---|--------------------------------|-------------------------------|
| OT<br>(order no.)<br>33393 | DIAMETRO<br>(outside diam.)<br>16.000" | ESPOSOR<br>(thickness)<br>0.375" | GRADO<br>(grade)<br>A-53 B | ESPECIFICACION<br>(specification)<br>ASTM | PROCESO<br>(process)<br>ERW | PEDIDO<br>(contract)<br>2673 | O. PREPARACION<br>(preparation order)<br>B-063-2007 | PROVEEDOR<br>(supplier)<br>APM | FECHA<br>(date)<br>10/03/2007 |
|----------------------------|--|----------------------------------|----------------------------|---|-----------------------------|------------------------------|---|--------------------------------|-------------------------------|

No. CERTIFICADO (certificate No.):  
CLIENTE (customer):  
PLESA ANAHUAC Y CIA S. SA. DE C.V.  
DIRECCION (address): AV. VALLE DE LAS ALAMEDAS # 66 O COL. SAN FCO. CHILPAN  
TULITLAN, EDO. DE MEXICO C.P. 54940

070256

| TUBO<br>(Pipe) | COLADA<br>(Heat) | T<br>L<br>Y<br>P<br>C | L<br>O<br>C<br>O | PRUEBA DE TENSION (tensile test) |                              |                  | BEND | HARDNESS<br>HV | PRUEBA DE IMPACTO (impact test) |                  |                              | GRAN SIZE<br>T<br>L<br>Y<br>P<br>C | ANALISIS QUIMICO / chemical analysis (%) |                              |                  |                              |                  |                              |                  |                              |                  |      |       |       |       |        |        |        |       |       |       |       |      |      |
|----------------|------------------|-----------------------|------------------|----------------------------------|------------------------------|------------------|------|----------------|---------------------------------|------------------|------------------------------|------------------------------------|--|------------------------------|------------------|------------------------------|------------------|------------------------------|------------------|------------------------------|------------------|------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|------|------|
|                |                  |                       |                  | Unidades<br>(units)              | orientacion<br>(orientation) | Tamaño<br>(size) |      |                | orientacion<br>(orientation)    | Tamaño<br>(size) | orientacion<br>(orientation) |                                    | Tamaño<br>(size)                         | orientacion<br>(orientation) | Tamaño<br>(size) | orientacion<br>(orientation) | Tamaño<br>(size) | orientacion<br>(orientation) | Tamaño<br>(size) | orientacion<br>(orientation) | Tamaño<br>(size) |      |       |       |       |        |        |        |       |       |       |       |      |      |
| 298            | CA0456779        | H 7                   | 6                | 42900                            | 67000                        | 36               | 0.75 |                |                                 |                  |                              | H 7                                | 0.08                                     | 0.34                         | 0.012            | 0.006                        | 0.007            | 0.03                         | 0.03             | -                            | 0.02             | 0.03 | 0.021 | 0.001 | 0.001 | 0.0002 | 0.001  | -      | -     | 0.001 | 0.10  | 0.14  |      |      |
| 273            | XH4734856        | H 7                   | 6                | 50000                            | 65300                        | 37               | 0.79 |                |                                 |                  |                              | H 7                                | 0.10                                     | 0.35                         | 0.013            | 0.006                        | 0.014            | 0.04                         | 0.04             | -                            | 0.02             | 0.02 | 0.020 | 0.002 | 0.002 | 0.0002 | 0.001  | -      | -     | 0.002 | 0.12  | 0.16  |      |      |
| 173            | CA0467574        | H 7                   | 6                | 47191                            | 61837                        | 38               | 0.76 |                |                                 |                  |                              | H 7                                | 0.10                                     | 0.40                         | 0.019            | 0.009                        | 0.014            | 0.04                         | 0.04             | -                            | 0.02             | 0.02 | 0.022 | 0.002 | 0.001 | 0.001  | 0.0002 | 0.001  | -     | -     | 0.002 | 0.10  | 0.15 |      |
| 218            | 0541382          | H 7                   | 6                | 48700                            | 62500                        | 38               | 0.83 |                |                                 |                  |                              | H 7                                | 0.07                                     | 0.40                         | 0.016            | 0.004                        | 0.010            | 0.03                         | 0.03             | -                            | 0.01             | 0.02 | 0.023 | 0.002 | 0.001 | 0.001  | 0.0002 | 0.001  | -     | -     | 0.002 | 0.09  | 0.14 |      |
| 103            | CA0467577        | H 7                   | 6                | 48700                            | 62100                        | 41               | 0.63 |                |                                 |                  |                              | H 7                                | 0.09                                     | 0.35                         | 0.015            | 0.012                        | 0.01             | 0.04                         | 0.04             | -                            | 0.02             | 0.02 | 0.025 | 0.003 | 0.002 | 0.001  | 0.0004 | 0.001  | -     | -     | 0.002 | 0.09  | 0.14 |      |
| 12             | CA0456778        | H 7                   | 6                | 42900                            | 64100                        | 38               | 0.78 |                |                                 |                  |                              | H 7                                | 0.12                                     | 0.43                         | 0.019            | 0.008                        | 0.018            | 0.04                         | 0.04             | -                            | 0.02             | 0.02 | 0.022 | 0.001 | 0.001 | 0.001  | 0.0002 | 0.002  | -     | -     | 0.002 | 0.10  | 0.15 |      |
|                |                  |                       |                  |                                  |                              |                  |      |                |                                 |                  |                              | P 7                                | 0.10                                     | 0.40                         | 0.016            | 0.006                        | 0.010            | 0.03                         | 0.03             | -                            | 0.02             | 0.03 | 0.022 | 0.002 | 0.001 | 0.001  | 0.0002 | 0.002  | -     | -     | 0.002 | 0.12  | 0.17 |      |
|                |                  |                       |                  |                                  |                              |                  |      |                |                                 |                  |                              | P 7                                | 0.12                                     | 0.41                         | 0.014            | 0.006                        | 0.010            | 0.03                         | 0.04             | -                            | 0.01             | 0.03 | 0.022 | 0.002 | 0.002 | 0.001  | 0.001  | 0.0002 | 0.002 | -     | -     | 0.002 | 0.14 | 0.19 |

PRUEBA HIDROSTATICA: PRESION: 980 Psi TEMPO: 10 sec  
 ULTRASONICO (UT): STANDARD DE REFERENCIA: G  
 RAYOS X (RT): PENETRIMETRO (penetrometer): N/A  
 NORMALIZADO DE SOLDADURA: TEMPERATURA (temperature): 1600° F. MIN.  
 REFERENCIA STANDARD: F. U.T. DRILLED HOLE 1/16" G. U.T. DRILLED HOLE 1/8"  
 U.T. NOTCH N.S. J. U.T. NOTCH V. D.L. RT HOLE 5/16" N. RT HOLE 2/21 O. RT HOLE 2/41

CERTIFICAMOS QUE EL MATERIAL DESCRITO HA SIDO HECHO DE ACUERDO CON LA ESPECIFICACION MENCIONADA Y QUE LOS RESULTADOS SON COMO APARECEN EN LOS REGISTROS DE LA COMPAÑIA.  
 (WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN IS MADE IN ACCORDANCE WITH THE SPECIFICATION MENTIONED AND THAT THESE TEST RESULTS ARE THE RESPONSIBILITY OF THE COMPANY.)

Control de Calidad (Quality Control)

Control de Cantidad (Quantity Control)



F-TIME-013