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|---|-------------------------------------|--------------------------------|
| MILL TEST CERTIFICATE CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: 14047871 | Page / Página: 1 / 6 |
| Date / Día: August 30, 2014 | | |

| | | | | | | | |
|---|--|--|--|---|--|---|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | | Customer's Reference / Ref. del Cliente: N/A | | Manufacturer's Works Order N° / Confirmación de Venta: 221775/01 | |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | | | Surface / Superficie: VARNISHED BARNIZADO | |
| Standard or Specification / Normas o Especificaciones: API 5L ED45/DECEMBER 2012, ASTM A106/14, ASTM A53/12, ASME SA106/2013 | | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | |
| Dimensions / Dimensiones: 4.500 X 0.337 INCH 114.3 X 8.6 MM | | Schedule / Cédula: SCH 080 / W.C XS | | Length / Longitud: 37.73 / 39.37 FT 11.50 / 12.00 MTS | | Quantity / Cantidad: 5 Pcs/Pz 196.063 FT 2929.946 LB 59.760 MTS 1329.000 KG | |
| Nominal Weight / Peso Nominal: 15.00 LB/FT 22.42 KG/M | | | | | | | |

TENSILE TEST / ENSAYO DE TENSION

| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition Condición de la probeta | | | | Specimen dimensions Dimensiones de la probeta | | Test temp. Temp. ensayo | Y.S. Eul 0.50 % | | U.T.S. | Y.S./U.T.S. Req. Max. | Elongation / Alargamiento | | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|----------------------------|--------------------|----------------------------|----------------------------|--------------------------|---------------------------|----------|-----------|-----------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | Req. | Min: 290 Max: -- MPa | Min: 415 Max: -- MPa | | Req. Max. -- | Lo in | Min. % | Obt. % |
| | | | | | | | | | | | | | | | | |
| 7592 | 03944 | B | AM | Ss | L | 25.73 X 08.24 | 214,17 | RT | 336 | 514 | 0,65 | 2 | 25.0 | 39.0 | | |
| 7811 | 05228 | B | AM | Ss | L | 25.78 X 08.27 | 215,37 | RT | 336 | 499 | 0,67 | 2 | 25.0 | 40.0 | | |
| 8125 | 32409 | B | AM | Ss | L | 25.54 X 08.67 | 223,66 | RT | 343 | 505 | 0,68 | 2 | 25.2 | 38.0 | | |
| 8132 | 32488 | B | AM | Ss | L | 25.64 X 08.55 | 221,44 | RT | 328 | 494 | 0,66 | 2 | 25.2 | 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 |

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trade-mark green colored "Tenaris" is stamped. In case the owner of the original certificate would release a copy of it, he must attest its conformity to the original one taking upon himself the responsibility for any unlawful or not allowed use. Any alteration and/or falsification will be subjected to the law.

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MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **14047871** Page / Página: **2 / 6**
 Date / Día: **August 30, 2014**

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| | | | | | | Nominal Weight / Peso Nominal: 15.00 LB/FT 22.42 KG/M | |

CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|-------------------------------|-----|-----|-----|-----|--------|----|-----|----|----|---------|-----|-----|----|----|-------|----|----|-------|--------|--------|--------|-----|
| | | X 100 | | | | | X 1000 | | | | | X 10000 | | | | | X 100 | | | | | | | |
| | | C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sn | Al | Ti | As | B | Ca | N | Ce. 1 | Col. 1 | Col. 2 | Col. 3 | |
| | H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | H | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° | Sample N° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| Colada N° | Muestra N° | P | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7592 | 00001 | H | 21 | 94 | 21 | 0.3 | 2 | 7 | 2 | 1 | 1 | 20 | 52 | 3 | 20 | 2 | 2 | 2 | 14 | 49 | 38 | 0.4 | 9.6 | 0.2 |
| 7592 | 03944 | P | 21 | 92 | 20 | 0.8 | 2 | 7 | 2.3 | 0 | 0 | 20 | 46 | 3 | 23 | 0 | 1 | 0 | 15 | 45 | 37 | 0 | 9.4 | 0 |
| 7592 | 03945 | P | 21 | 92 | 20 | 0.8 | 2 | 7 | 2.4 | 0 | 0 | 20 | 46 | 3 | 23 | 0 | 1 | 0 | 15 | 46 | 37 | 0 | 9.4 | 0 |
| 7811 | 00001 | H | 18 | 76 | 28 | 1.3 | 7 | 5 | 1 | 1 | 1 | 90 | 70 | 5 | 20 | 2 | 2 | 1 | 14 | 78 | 33 | 0.4 | 24.4 | 0.2 |
| 7811 | 05228 | P | 18 | 74 | 27 | 1.8 | 8 | 5 | 1.6 | 0 | 0 | 80 | 67 | 5 | 24 | 0 | 2 | 0 | 11 | 74 | 33 | 0 | 24.5 | 0 |
| 7811 | 05229 | P | 17 | 74 | 27 | 1.8 | 8 | 5 | 1.7 | 0 | 0 | 80 | 67 | 5 | 24 | 0 | 2 | 0 | 13 | 73 | 32 | 0 | 24.5 | 0 |
| 8125 | 00001 | H | 18 | 76 | 31 | 0.3 | 7 | 5 | 2 | 2 | 1 | 20 | 42 | 4 | 22 | 2 | 2 | 2 | 12 | 66 | 33 | 0.5 | 13.7 | 0.3 |
| 8125 | 32409 | P | 18 | 72 | 29 | 0.8 | 8 | 5 | 1.8 | 0 | 0 | 20 | 42 | 3 | 24 | 0 | 1 | 0 | 13 | 68 | 32 | 0 | 15 | 0 |
| 8125 | 32410 | P | 18 | 72 | 29 | 0.8 | 8 | 5 | 1.8 | 0 | 0 | 20 | 42 | 3 | 24 | 0 | 2 | 0 | 12 | 69 | 32 | 0 | 15 | 0 |
| 8132 | 00001 | H | 18 | 76 | 29 | 0.5 | 7 | 5 | 2 | 2 | 1 | 20 | 66 | 5 | 20 | 2 | 2 | 1 | 14 | 56 | 33 | 0.5 | 16.3 | 0.3 |
| 8132 | 32488 | P | 18 | 73 | 28 | 1 | 8 | 6 | 2.7 | 0 | 0 | 30 | 66 | 5 | 22 | 0 | 2 | 0 | 15 | 61 | 33 | 0 | 18.6 | 0 |
| 8132 | 32489 | P | 17 | 72 | 28 | 1 | 8 | 5 | 1.9 | 0 | 0 | 30 | 66 | 5 | 23 | 0 | 2 | 0 | 16 | 60 | 31 | 0 | 18.6 | 0 |

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

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| | Date / Día: August 30, 2014 | |

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | OD | | | | MW | | | | ID | | | | Var. |
|----------------------|-------------------------|--------------------|----|-------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | |
| 7592 | 03944 | B | AM | 1 | HRBW | 77.5 | 78.5 | 77.5 | 77.8 | 78.2 | 79.3 | 78.0 | 78.5 | 77.8 | 79.3 | 79.7 | 78.9 | 1.1 |
| 7592 | 03945 | B | AM | 1 | HRBW | 76.8 | 77.5 | 76.7 | 77.0 | 77.9 | 78.0 | 78.3 | 78.1 | 77.1 | 77.1 | 78.0 | 77.4 | 1.1 |
| 7811 | 05228 | B | AM | 1 | HRBW | 76.7 | 76.7 | 76.7 | 76.7 | 77.6 | 77.7 | 77.8 | 77.7 | 77.8 | 77.7 | 77.2 | 77.6 | 1.0 |
| 7811 | 05229 | B | AM | 1 | HRBW | 77.3 | 77.4 | 77.0 | 77.2 | 77.1 | 77.3 | 77.1 | 77.2 | 76.9 | 77.1 | 77.4 | 77.1 | 0.1 |
| 8125 | 32409 | B | AM | 1 | HRBW | 76.3 | 76.6 | 75.9 | 76.3 | 76.6 | 76.5 | 76.2 | 76.4 | 76.3 | 77.2 | 77.2 | 76.9 | 0.6 |
| 8125 | 32410 | B | AM | 1 | HRBW | 77.3 | 77.7 | 77.6 | 77.5 | 77.1 | 77.2 | 77.1 | 77.1 | 77.8 | 78.2 | 78.1 | 78.0 | 0.9 |
| 8132 | 32488 | B | AM | 1 | HRBW | 74.6 | 74.6 | 75.1 | 74.8 | 75.5 | 75.6 | 75.3 | 75.5 | 74.7 | 75.1 | 75.5 | 75.1 | 0.7 |
| 8132 | 32489 | B | AM | 1 | HRBW | 76.5 | 76.5 | 76.9 | 76.6 | 75.8 | 76.5 | 76.6 | 76.3 | 75.6 | 76.6 | 76.7 | 76.3 | 0.3 |

| | | | |
|--|--|---|--|
| 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: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 7592 | 03944 | Good / Bueno | 7811 | 05229 | Good / Bueno | 8125 | 32410 | Good / Bueno | 8132 | 32489 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRÁULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| mpa | 20.5 | 5 | Satisfactory / Satisfactorio |

HEAT TREATMENT / TRATAMIENTO TERMICO

| | |
|--|--------------|
| Heat treatment / Tratamiento térmico: Pipe / Tubo | |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: n/a | |
| Temperature Scale / Escala de Temperatura: n/a | |
| | Type Tipo |
| asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

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

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|---|--|
| Material free from Mercury contamination Not repaired by welding Non destructive test. Satisfactory Inspection method . - EMI - FLVI - MPI - ASTM A106/14, ASTM A53/12, ASME SA106/2013 MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. Tamsa Ref. 016912 | Material libre de contaminación de Mercurio No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección . - EMI - FLVI - MPI - ASTM A106/14, ASTM A53/12, ASME SA106/2013 MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22 HRC Tamsa Ref. 016912 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) | Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|----------------------|----------------------------------|--------------------|-------|--------------------------|
| | | (ft) | (m) | | | | (ft) | (m) | |
| 7592 | 1 | 39.24 | 11.96 | 0.265 | 8125 | 1 | 39.17 | 11.94 | 0.268 |
| 7811 | 2 | 78.51 | 23.93 | 0.529 | 8132 | 1 | 39.14 | 11.93 | 0.267 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|--------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 39.212 | 11.952 | 14.944 | 22.239 |



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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 aqui 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.

| | |
|---|---|
| CUSTOMER . THIRD PARTY | TENARIS QUALITY DEPARTMENT SIGNATURE |
| INSPECTION COMPANY COMPAÑÍA DE INSPECCIÓN Company Name: N/A Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Teresa M. Castellá Abraham |
| |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Rafael Gutiérrez de Velasco Magallanes |

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