

ORIGINAL

QUALITY CERTIFICATE



주식회사 휴스틸

HUSTEEL Co., Ltd.

P/O No. : 18285
 L/C No. : M931301
 ISSUED DATE : 2014.08.25
 COMMODITY : E.R.W. STEEL PIPE
 API 5L X-42 PSL1/
 SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
 KANGNAM-GU, SEOUL, KOREA
 DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
 YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 140825-291
 MANUFACTURED No. : 2014-07-203
 SUPPLIER : HUSTEEL CO., LTD.
 CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY PCS | TYPE *1 | NOMINAL SIZE | ORDER SIZE | | | WEIGHT lb/ft | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | | |
|-----|---------|------------------|------------|-----------------|------------|-------|--------|-----------------|--------------|--------|--------|----|----|-------------------------|-----|-----|----|----|----|---|----|----|----|----|----|----|----|---|-----|-----|----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | |
| | | | | | inch | inch | ft | | | | | | | | | PSI | | | % | % | -2 | | | -3 | | | -4 | | | -5 | -3 |
| 01 | SB08624 | 311 | BPEB | 10 3/4 | 10.750 | 0.250 | 20 | 28.06 | T | 65,699 | 50,616 | 40 | 77 | 72,951 | H | 14 | 1 | 66 | 9 | 4 | 16 | 8 | 19 | 30 | 10 | TR | TR | | | | |
| 02 | N14913 | 21 | BPEB | 10 3/4 | 10.750 | 0.250 | 20 | 28.06 | T | 69,180 | 58,738 | 39 | 85 | 76,287 | H | 16 | 2 | 59 | 10 | 4 | 14 | 6 | 20 | 10 | 10 | 21 | 6 | | | | |
| 03 | N14910 | 11 | BPEB | 10 3/4 | 10.750 | 0.250 | 20 | 28.06 | T | 70,050 | 60,478 | 36 | 86 | 82,523 | H | 16 | 1 | 58 | 9 | 4 | 13 | 6 | 19 | 10 | 8 | 12 | 6 | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|------|---------------|-----------------|-------------|-------------------------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | °C | | g/m ² | TIMES | inch | inch | | Energy (Ind, J) | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | | | |
| 01 | 1670 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 02 | 1670 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 03 | 1670 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
 - HARDNESS MAX 22 HRC AS PER NACE MR 0175

N O T E

| | | | | | | | | | | | | | | | | | | |
|--|---|--|-------------------------------|-----------------------|------|--------------|------|--------------|-----|---------------------|-----|--------------------------|-----|--------------------------|-----|-------------------------------|--|---|
| *1. Type of Pipe Ends | *2. O.D : Outside Diameter, W.T : Wall Thickness | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>BPE</td> <td>Black Plain Ends</td> <td>GPE</td> <td>Galvanized Plain Ends</td> </tr> <tr> <td>BPEB</td> <td>BPE Bevelled</td> <td>GPEB</td> <td>GPE Bevelled</td> </tr> <tr> <td>BTE</td> <td>Black Threaded Ends</td> <td>GTE</td> <td>Galvanized Threaded Ends</td> </tr> <tr> <td>BTC</td> <td>Black Threaded & Coupled</td> <td>GTC</td> <td>Galvanized Threaded & Coupled</td> </tr> </table> | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | BPEB | BPE Bevelled | GPEB | GPE Bevelled | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload | *5. H : Heat analysis, P : Product analysis |
| BPE | Black Plain Ends | GPE | Galvanized Plain Ends | | | | | | | | | | | | | | | |
| BPEB | BPE Bevelled | GPEB | GPE Bevelled | | | | | | | | | | | | | | | |
| BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | | | | | | | | | | | | | | | |
| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | | | | | | | | |
| | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | | | | | | | | | | |
| | *8. Specimen Size -A : 10x10mm, B : 10x7.5mm, C : 10x6.6mm, D : 10x5.0mm, Direction: Transverse | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | | | | | | | | | | |
| | *11. W.ZC : Weight of Zinc Coating, C.S.T : Copper Sulphate Test | *10. Heat Treatment Seam Normalizing Reference Standard 3.2 C Drilled Hole | | | | | | | | | | | | | | | | |
| | *12. T.P.I : Threads per inch, E.T.L : Effective length of threads | *13. N.D.T : UT | | | | | | | | | | | | | | | | |

SURVEYOR: _____

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION
 THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

MANAGER OF Q.A TEAM: *[Signature]*



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CERTIFICATE No. : 140825-291
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 SUPPLIER : HUSTEEL CO., LTD.
 CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY PCS | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT lb/ft | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|------------------|------|-----------------|------------|-------|--------|-----------------|--------------|--------|--------|----|----|-------------------------|-----|-----|----|----|-----|----|----|----|----|----|----|-----|----|---|-----|-----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM |
| | | | | | inch | inch | ft | | | | | | | | | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | -3 |
| 04 | N09161 | 33 | BPEB | 10 3/4 | 10.750 | 0.250 | 20 | 28.06 | T | 71,210 | 60,768 | 37 | 85 | 73,821 | H | 7 | 1 | 78 | 9 | 4 | 15 | 10 | 20 | TR | TR | 160 | 10 | | | |
| 05 | N01865 | 20 | BPEB | 12 3/4 | 12.750 | 0.225 | 20 | 30.13 | T | 68,165 | 53,517 | 38 | 79 | 80,637 | H | 7 | 1 | 79 | 10 | 4 | 15 | 11 | 19 | 25 | 6 | 185 | 2 | | | |
| 06 | N12476 | 303 | BPEB | 14 | 14.000 | 0.225 | 20 | 33.13 | T | 65,119 | 53,807 | 36 | 83 | 69,180 | H | 6 | 1 | 76 | 15 | 7 | 14 | 10 | 20 | TR | TR | 120 | 10 | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM | |
|-----|------------------|-----|--------|----------------|-------------------|------------------|---------|-----|---------------|-------------|-----|-----------------|----------------------|-------------------------|--------------------|---------------------|--------------------|-------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | HV | DIV | Energy (Ind. J) | SIZE | GOOD | GOOD | GOOD | GOOD | GOOD |
| | PSI | sec | | | °C | g/m ² | | | | | | | | TIMES | inch | *7 | *8 | FLANGE TEST |
| 04 | 1670 | 5 | GOOD | 930 | | | | | | | | | | | | | | |
| 05 | 1270 | 5 | GOOD | 930 | | | | | | | | | | | | | | |
| 06 | 1160 | 5 | GOOD | 930 | | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
 - HARDNESS MAX 22 HRC AS PER NACE MR 0175

N O T E

| | | | | | | | | | | | | | | | | | | |
|--|---|---|-------------------------------|-----------------------|------|--------------|------|--------------|-----|---------------------|-----|--------------------------|-----|--------------------------|-----|-------------------------------|--|---|
| *1. Type of Pipe Ends | *2. O.D : Outside Diameter, W.T : Wall Thickness | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>BPE</td> <td>Black Plain Ends</td> <td>GPE</td> <td>Galvanized Plain Ends</td> </tr> <tr> <td>BPEB</td> <td>BPE Bevelled</td> <td>GPEB</td> <td>GPE Bevelled</td> </tr> <tr> <td>BTE</td> <td>Black Threaded Ends</td> <td>GTE</td> <td>Galvanized Threaded Ends</td> </tr> <tr> <td>BTC</td> <td>Black Threaded & Coupled</td> <td>GTC</td> <td>Galvanized Threaded & Coupled</td> </tr> </table> | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | BPEB | BPE Bevelled | GPEB | GPE Bevelled | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload | *5. H : Heat analysis, P : Product analysis |
| BPE | Black Plain Ends | GPE | Galvanized Plain Ends | | | | | | | | | | | | | | | |
| BPEB | BPE Bevelled | GPEB | GPE Bevelled | | | | | | | | | | | | | | | |
| BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | | | | | | | | | | | | | | | |
| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | | | | | | | | |
| | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | | | | | | | | | | |
| | *8. Specimen Size -A : 10x10mm, B : 10x7.5mm, C : 10x6.6mm, D : 10x5.0mm, Direction: Transverse | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | | | | | | | | | | |
| | *11. W.ZC : Weight of Zinc Coating, C.S.T : Copper Sulphate Test | *10. Heat Treatment Seam Normalizing | | | | | | | | | | | | | | | | |
| | *12. T.P.I : Threads per inch, E.T.L : Effective length of threads | *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | | | | | | | | | | |

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| NO. | HEAT_NO | QUAN- TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | | |
|-----|---------|---------------|------|-----------------|------------|-------|--------|--------|--------------|--------|--------|----|----|-------------------------|-----|-----|----|----|-----|----|----|----|----|----|----|-----|----|---|-----|-----|--|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | |
| | | | | | inch | inch | ft | | | | | | | | | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | -3 | |
| 07 | N12472 | 78 | BPEB | 14 | 14.000 | 0.225 | 20 | 33.13 | T | 65,699 | 52,646 | 40 | 80 | 71,355 | H | 7 | 1 | 74 | 14 | 7 | 16 | 10 | 30 | TR | TR | 130 | 10 | | | | |
| 08 | N08479 | 105 | BPEB | 14 | 14.000 | 0.225 | 20 | 33.13 | T | 68,745 | 55,692 | 39 | 81 | 73,821 | H | 7 | 1 | 76 | 16 | 4 | 14 | 10 | 20 | TR | TR | 150 | 10 | | | | |
| 09 | N04969 | 62 | BPEB | 14 | 14.000 | 0.225 | 20 | 33.13 | T | 68,310 | 55,692 | 39 | 82 | 72,516 | H | 6 | 2 | 76 | 12 | 2 | 19 | 10 | 20 | TR | TR | 120 | 10 | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|------|---------------|-----------------|------|-------------|-------------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | °C | | g/m ² | TIMES | inch | inch | | Energy (Ind, J) | SIZE | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | | |
| 07 | 1160 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 08 | 1160 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 09 | 1160 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
 - HARDNESS MAX 22 HRC AS PER NACE MR 0175

N O T E

| | | | | | | | | | | | | | | | | | | |
|--|---|---|-------------------------------|-----------------------|------|--------------|------|--------------|-----|---------------------|-----|--------------------------|-----|--------------------------|-----|-------------------------------|--|---|
| *1. Type of Pipe Ends | *2. O.D : Outside Diameter, W.T : Wall Thickness | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | | | | | | | | | | |
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| BPE | Black Plain Ends | GPE | Galvanized Plain Ends | | | | | | | | | | | | | | | |
| BPEB | BPE Bevelled | GPEB | GPE Bevelled | | | | | | | | | | | | | | | |
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| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | | | | | | | | |
| | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | | | | | | | | | | |
| | *8. Specimen Size -A : 10x10mm, B : 10x7.5mm, C : 10x6.6mm, D : 10x5.0mm, Direction: Transverse | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | | | | | | | | | | |
| | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test | *10. Heat Treatment Seam Normalizing | | | | | | | | | | | | | | | | |
| | *12. TPI : Threads per inch, ETL : Effective length of threads | *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | | | | | | | | | | |

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| NO. | HEAT_NO | QUAN- TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|---------------|------|-----------------|------------|-------|--------|--------|--------------|--------|--------|----|----|--------|-------------------------|-----|----|----|----|-----|----|----|----|----|----|----|----|---|-----|-----|----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | |
| | | | | | inch | inch | ft | | | | | | | | | PSI | | | % | % | -2 | | | -3 | | | -4 | | | -5 | -3 |
| | | | | | *2 | | | | | | | | | | | *3 | *4 | | | PSI | *5 | *6 | | | | | | | | | |
| 10 | 104053 | 9 | BPEB | 14 | 14.000 | 0.375 | 20 | 54.62 | T | 71,936 | 50,616 | 39 | 70 | 75,561 | H | 17 | 2 | 82 | 13 | 1 | 10 | 10 | 10 | 30 | 10 | 10 | 10 | | | | |
| 11 | N12965 | 45 | BPEB | 14 | 14.000 | 0.375 | 20 | 54.62 | T | 71,501 | 60,188 | 38 | 84 | 75,271 | H | 16 | 1 | 85 | 15 | 2 | 6 | 6 | 12 | 58 | 2 | 7 | 1 | | | | |
| 12 | N12960 | 19 | BPEB | 14 | 14.000 | 0.375 | 20 | 54.62 | T | 70,195 | 57,432 | 38 | 82 | 69,470 | H | 16 | 1 | 85 | 14 | 2 | 6 | 6 | 11 | 54 | 2 | 7 | 1 | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM | |
|-----|------------------|-----|--------|-------------------|----------------------|------------------|---------|-----|------------------|-------------|--------------------|------|-------------------------|----------------------------|-----------------------|------------------------|----------------------------|---------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | HV | Energy (Ind, J) | SIZE | GOOD | GOOD | GOOD | GOOD | GOOD | |
| | PSI | sec | | | °C | g/m ² | | | | | | | TIMES | inch | DIV | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST |
| | *9 | | | | *11 | | | | | | | | *12 | | *7 | *8 | | |
| 10 | 1920 | 5 | GOOD | 950 | | | | | | | | | | | | | | |
| 11 | 1920 | 5 | GOOD | 950 | | | | | | | | | | | | | | |
| 12 | 1920 | 5 | GOOD | 950 | | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

N O T E

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|--|---|--|-------------------------------|-----------------------|------|--------------|------|--------------|-----|---------------------|-----|--------------------------|-----|--------------------------|-----|-------------------------------|--|---|
| *1. Type of Pipe Ends | *2. O.D : Outside Diameter, W.T : Wall Thickness | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | | | | | | | | | | |
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| BPEB | BPE Bevelled | GPEB | GPE Bevelled | | | | | | | | | | | | | | | |
| BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | | | | | | | | | | | | | | | |
| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | | | | | | | | |
| | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | | | | | | | | | | |
| | *8. Specimen Size -A : 10x10mm, B : 10x7.5mm, C : 10x6.6mm, D : 10x5.0mm, Direction: Transverse | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | | | | | | | | | | |
| | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test | *12. TPI : Threads per inch, ETL : Effective length of threads | | | | | | | | | | | | | | | | |
| | | *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | | | | | | | | | | |

SURVEYOR: _____

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION
THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

MANAGER OF Q.A TEAM:



ORIGINAL

QUALITY CERTIFICATE



P/O No. : 18285
L/C No. : M931301

CERTIFICATE No. : 140825-291

ISSUED DATE : 2014.08.25

MANUFACTURED No. : 2014-07-203

COMMODITY : E.R.W. STEEL PIPE
API 5L X-42 PSL1/
SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHI-DONG,
KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|--------|-------------------------|-------|-----|----|----|-----|----|----|----|----|----|-----|----|---|-----|-----|----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | |
| | | | | | inch | inch | ft | | | | | | | | | lb/ft | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | -3 |
| 13 | 301293 | 48 | BPEB | 14 | 14.000 | 0.375 | 20 | 54.62 | T | 71,936 | 52,211 | 38 | 73 | 76,287 | H | 16 | TR | 84 | 15 | 2 | 10 | 10 | 20 | 70 | 10 | 10 | 10 | | | | |
| 14 | N06302 | 72 | BPEB | 14 | 14.000 | 0.438 | 20 | 63.50 | T | 70,920 | 58,448 | 40 | 82 | 76,287 | P | 16 | 1 | 83 | 14 | 1 | 6 | 6 | 10 | 51 | 2 | 7 | 1 | | | | |
| 15 | M92946 | 42 | BPEB | 14 | 14.000 | 0.438 | 20 | 63.50 | T | 68,455 | 57,432 | 40 | 84 | 70,050 | H | 6 | 1 | 75 | 11 | 4 | 16 | 10 | 20 | TR | 10 | 230 | 10 | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|-----|---------------|-----------------|------|-------------|-------------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | °C | | g/m ² | TIMES | inch | HV | | Energy (Ind, J) | SIZE | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | | |
| 13 | 1920 | 5 | GOOD | 950 | | | | | | | | | | | | | |
| 14 | 2240 | 5 | GOOD | 950 | | | | | | | | | | | | | |
| 15 | 2240 | 5 | GOOD | 950 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

| | | | | | | | | | | | | |
|------------------|----------------------|--------------------------|------|-------------------------------|---|--|--|--|---|--|--|--|
| N O T E | *1.Type of Pipe Ends | | | | *2. O.D : Outside Diameter, W.T : Wall Thickness | | | | *3. Direction: L : Longitudinal, T : Transverse | | | |
| | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload | | | | | | | |
| | BPEB | BPE Bevelled | GPEB | GPE Bevelled | *5. H : Heat analysis, P : Product analysis *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | |
| | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | *8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse *9. T.P : Testing Pressure, H.T : Holding Time *10. Heat Treatment Seam Normalizing | | | | | | | |
| | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | |

| | | |
|----------|---|---------------------|
| SURVEYOR | WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B) | MANAGER OF Q.A TEAM |
| | | |

ORIGINAL

QUALITY CERTIFICATE



주식회사 휴스틸

HUSTEEL Co., Ltd.

P/O No. : 18285
L/C No. : M931301

CERTIFICATE No. : 140825-291

ISSUED DATE : 2014.08.25

MANUFACTURED No. : 2014-07-203

COMMODITY : E.R.W. STEEL PIPE
API 5L X-42 PSL1/
SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|--------|-------------------------|-----|----|----|----|---|-----|----|----|----|----|-----|----|----|-----|-----|----|----|--|--|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | | | | |
| | | | | | inch | inch | ft | | | | | | | | | PSI | | | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | -3 | | |
| | | | | | *2 | | | | *3 | *4 | | | *6 | | | | | | | | | | | | | | | | | | | | | |
| 16 | N12441 | 8 | BPEB | 18 | 18.000 | 0.250 | 20 | 47.44 | T | 67,150 | 53,807 | 38 | 80 | 69,180 | H | 6 | 1 | 77 | 12 | 8 | 16 | 10 | 20 | TR | TR | 150 | 10 | | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 2 | 80 | 12 | 7 | 14 | 5 | 23 | 10 | 8 | 191 | 9 | | | | | | | |
| 17 | N12436 | 16 | BPEB | 18 | 18.000 | 0.250 | 20 | 47.44 | T | 66,860 | 53,952 | 38 | 81 | 69,325 | H | 6 | 1 | 78 | 12 | 8 | 18 | 10 | 20 | TR | TR | 150 | 20 | | | | | | | |
| | | | | | | | | | | | | | | | P | 5 | 2 | 79 | 12 | 7 | 14 | 5 | 23 | 10 | 9 | 190 | 8 | | | | | | | |
| 18 | N11378 | 1 | BPEB | 18 | 18.000 | 0.250 | 20 | 47.44 | T | 68,745 | 55,692 | 37 | 81 | 83,103 | H | 6 | 2 | 74 | 8 | 6 | 14 | 10 | 20 | TR | TR | 140 | 10 | | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 2 | 76 | 8 | 6 | 11 | 4 | 16 | 10 | 8 | 183 | 4 | | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 2 | 76 | 8 | 6 | 11 | 4 | 15 | 10 | 8 | 179 | 3 | | | | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|------------------|-------------------|-----|---------|-----|-----------------|-------------|-------------|-------------------------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | TP | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | °C | g/m ² | TIMES | TPI | inch | HV | Energy (Ind, J) | SIZE | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | | | |
| | *9 | | | *10 | *11 | | *12 | | *7 | *8 | | | | | | | |
| 16 | 1000 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 17 | 1000 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 18 | 1000 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

| | | | | | | | | | | | | | | | | |
|------|-----------------------|--------------------------|------|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| NOTE | *1. Type of Pipe Ends | | | | *2. O.D : Outside Diameter, W.T : Wall Thickness | | | | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | |
| | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload | | | | *5. H : Heat analysis, P : Product analysis | | | | | | | |
| | BPEB | BPE Bevelled | GPEB | GPE Bevelled | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | | | | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | |
| | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | *8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse | | | | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | |
| | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test | | | | *12. TPI : Threads per inch, ETL : Effective length of threads | | | | *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | |

| | | | | | | | | | | | | | | | | |
|----------|---|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|
| SURVEYOR | WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B) | | | | | | | | | | | | MANAGER OF QA TEAM | | | |
| | | | | | | | | | | | | | | | | |

ORIGINAL

QUALITY CERTIFICATE



P/O No. : 18285
 L/C No. : M931301
 ISSUED DATE : 2014.08.25
 COMMODITY : E.R.W. STEEL PIPE
 API 5L X-42 PSL1/
 SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
 KANGNAM-GU, SEOUL, KOREA
 DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
 YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 140825-291
 MANUFACTURED No. : 2014-07-203
 SUPPLIER : HUSTEEL CO., LTD.
 CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|--------|-------------------------|-----|----|----|-----|----|----|----|----|----|----|-----|----|---|-----|-----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM |
| | | | | | inch | inch | ft | | | | | | | | | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | -3 |
| 19 | N11370 | 39 | BPEB | 18 | 18.000 | 0.250 | 20 | 47.44 | T | 70,920 | 59,463 | 37 | 84 | 84,118 | H | 7 | 1 | 75 | 11 | 7 | 15 | 10 | 20 | TR | 10 | 150 | 10 | | | |
| 20 | N12466 | 1 | BPEB | 18 | 18.000 | 0.250 | 20 | 47.44 | T | 69,180 | 58,303 | 39 | 84 | 85,424 | P | 6 | 2 | 78 | 8 | 6 | 12 | 6 | 18 | 10 | 11 | 202 | 5 | | | |
| 21 | N13085 | 15 | BPEB | 18 | 18.000 | 0.500 | 20 | 93.54 | T | 68,600 | 57,577 | 41 | 84 | 75,416 | H | 7 | 2 | 77 | 8 | 6 | 12 | 5 | 17 | 10 | 8 | 188 | 4 | | | |
| | | | | | | | | | | | | | | | P | 6 | 2 | 76 | 8 | 6 | 11 | 3 | 16 | 10 | 8 | 185 | 4 | | | |
| | | | | | | | | | | | | | | | P | 6 | 2 | 76 | 7 | 5 | 11 | 4 | 16 | 10 | 7 | 178 | 3 | | | |
| | | | | | | | | | | | | | | | H | 6 | 1 | 75 | 14 | 5 | 13 | 10 | 30 | TR | TR | 240 | 10 | | | |
| | | | | | | | | | | | | | | | P | 5 | 1 | 79 | 14 | 5 | 12 | 6 | 29 | 10 | 10 | 306 | 7 | | | |
| | | | | | | | | | | | | | | | P | 5 | 1 | 79 | 14 | 5 | 12 | 5 | 28 | 10 | 9 | 300 | 7 | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|------------------|---------|-----|---------------|-------------|-----------------|------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | DIV | Energy (Ind, J) | SIZE | GOOD | GOOD | GOOD | GOOD | GOOD |
| | PSI | sec | | | °C | g/m ² | | | | | | | TIMES | inch | HV | *7 | *8 |
| 19 | 1000 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 20 | 1000 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 21 | 1990 | 5 | GOOD | 950 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
 - HARDNESS MAX 22 HRC AS PER NACE MR 0175

| | | | | | | | | | | | | |
|------------------|----------------------|--------------------------|------|-------------------------------|---|--|--|--|--|--|--|--|
| N O T E | *1.Type of Pipe Ends | | | | *2. O.D : Outside Diameter, W.T : Wall Thickness | | | | *3. Direction- L : Longitudinal, T : Transverse | | | |
| | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload | | | | *5. H : Heat analysis, P : Product analysis | | | |
| | BPEB | BPE Bevelled | GPEB | GPE Bevelled | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | | | | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | |
| | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | *8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse | | | | *9. T.P : Testing Pressure, H.T : Holding Time | | | |
| | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *10. Heat Treatment Seam Normalizing | | | | *11. W.ZC : Weight of Zinc Coating, C.S.T : Copper Sulphate Test | | | |
| | | | | | *12. T.P.I : Threads per inch, E.T.L : Effective length of threads | | | | *13. N.D.T : UT, Reference Standard 3.2 C Drilled Hole | | | |

SURVEYOR: _____

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION
 THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

MANAGER OF Q.A TEAM: *[Signature]*

ORIGINAL

QUALITY CERTIFICATE



주식회사 휴스틸

HUSTEEL Co., Ltd.

P/O No. : 18285
L/C No. : M931301

CERTIFICATE No. : 140825-291

ISSUED DATE : 2014.08.25

MANUFACTURED No. : 2014-07-203

COMMODITY : E.R.W. STEEL PIPE
API 5L X-42 PSL1/
SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|-----|-------------------------|-----|---|----|-----|----|----|----|----|----|----|----|-----|----|---|-----|-----|--|--|--|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM | | | |
| | | | | | inch | inch | ft | | | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 | | -3 | | | | | | | | |
| 22 | N12449 | 21 | BPEB | 18 | 18.000 | 0.500 | 20 | 93.54 | T | 71,210 | 61,203 | 39 | 86 | 82,523 | H | 7 | 1 | 77 | 12 | 6 | 23 | 10 | 40 | TR | TR | 230 | 10 | | | | | | |
| 23 | N00377 | 1 | BPEB | 18 | 18.000 | 0.500 | 20 | 93.54 | T | 78,317 | 65,119 | 38 | 83 | 79,767 | P | 6 | 1 | 78 | 11 | 6 | 21 | 8 | 45 | 10 | 9 | 278 | 6 | | | | | | |
| 24 | M96694 | 2 | BPEB | 18 | 18.000 | 0.500 | 20 | 93.54 | T | 70,340 | 59,608 | 42 | 85 | 73,531 | H | 6 | 17 | 102 | 17 | 1 | 21 | 10 | 20 | TR | TR | 340 | 20 | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 18 | 103 | 17 | 1 | 24 | 10 | 25 | 13 | 6 | 373 | 11 | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 17 | 103 | 17 | 2 | 24 | 10 | 25 | 11 | 5 | 373 | 11 | | | | | | |
| | | | | | | | | | | | | | | | H | 6 | 1 | 76 | 13 | 3 | 9 | 10 | 20 | TR | TR | 230 | 10 | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 1 | 79 | 11 | 4 | 7 | 1 | 20 | 10 | 13 | 206 | 8 | | | | | | |
| | | | | | | | | | | | | | | | P | 6 | 1 | 79 | 11 | 4 | 7 | 1 | 20 | 10 | 12 | 204 | 8 | | | | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|------|---------------|-------------|-----------------|------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | TP | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | | | | | | | |
| | PSI | sec | | | g/m ² | TIMES | | inch | | HV | Energy (Ind, J) | SIZE | | | | | |
| 22 | 1990 | 5 | GOOD | 950 | | | | | | | | | | | | | |
| 23 | 1990 | 5 | GOOD | 950 | | | | | | | | | | | | | |
| 24 | 1990 | 5 | GOOD | 950 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012) ·
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

| | | | | | | | | | | | | |
|------|----------------------|--------------------------|------|-------------------------------|---|--|--|--|---|--|--|--|
| NOTE | *1.Type of Pipe Ends | | | | *2. O.D : Outside Diameter, W.T : Wall Thickness | | | | *3. Direction- L : Longitudinal, T : Transverse | | | |
| | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload | | | | | | | |
| | BPEB | BPE Bevelled | GPEB | GPE Bevelled | *5. H : Heat analysis, P : Product analysis *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | |
| | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | *8. Specimen Size -A : 10x10mm, B : 10x7.5mm, C : 10x6.6mm, D : 10x5.0mm, Direction: Transverse *9. T.P : Testing Pressure, H.T : Holding Time *10. Heat Treatment Seam Normalizing | | | | | | | |
| | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | |

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION
THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

MANAGER OF Q.A TEAM



ORIGINAL

QUALITY CERTIFICATE



P/O No. : 18285
 L/C No. : M931301
 ISSUED DATE : 2014.08.25
 COMMODITY : E.R.W. STEEL PIPE
 API 5L X-42 PSL1/
 SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
 KANGNAM-GU, SEOUL, KOREA
 DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
 YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 140825-291
 MANUFACTURED No. : 2014-07-203
 SUPPLIER : HUSTEEL CO., LTD.
 CUSTOMER : PLESA ANAHUAC Y CIAS, S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|-------------------------|-----|-------|-----|----|----|-----|----|----|----|----|----|-----|----|---|-----|-----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM |
| | | | | | inch | inch | ft | | | | | | | | | lb/ft | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 |
| | | | | | *2 | | | | *3 | *4 | | | | *5 | *6 | | | | | | | | | | | | | | | |
| 25 | N15112 | 1 | BPEB | 24 | 24.000 | 0.375 | 20 | 94.71 | T | 70,630 | 56,707 | 40 | 80 | 71,210 | H | 7 | 1 | 75 | 11 | 5 | 11 | 10 | 20 | TR | TR | 230 | 10 | | | |
| 26 | N15107 | 33 | BPEB | 24 | 24.000 | 0.375 | 20 | 94.71 | T | 70,775 | 57,723 | 40 | 82 | 72,516 | P | 7 | 2 | 78 | 14 | 5 | 13 | 11 | 22 | 29 | 7 | 267 | 6 | | | |
| 27 | N14915 | 136 | BPEB | 12 3/4 | 12.750 | 0.250 | 20 | 33.41 | T | 68,745 | 56,127 | 38 | 82 | 73,096 | H | 6 | 1 | 76 | 15 | 4 | 17 | 10 | 20 | TR | 10 | 130 | 10 | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|------|---------------|-----------------|------|-------------|-------------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | °C | | g/m ² | TIMES | inch | inch | | Energy (Ind. J) | SIZE | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | | |
| 25 | 1190 | 10 | GOOD | 950 | | | | | | | | | | | | | |
| 26 | 1190 | 10 | GOOD | 950 | | | | | | | | | | | | | |
| 27 | 1410 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
 - HARDNESS MAX 22 HRC AS PER NACE MR 0175

N O T E

| | | | | | | | | | | | | | | | | | | |
|--|---|--|-------------------------------|-----------------------|------|--------------|------|--------------|-----|---------------------|-----|--------------------------|-----|--------------------------|-----|-------------------------------|---|---|
| *1. Type of Pipe Ends | *2. O.D : Outside Diameter, W.T : Wall Thickness | *3. Direction- L : Longitudinal, T : Transverse | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>BPE</td> <td>Black Plain Ends</td> <td>GPE</td> <td>Galvanized Plain Ends</td> </tr> <tr> <td>BPEB</td> <td>BPE Bevelled</td> <td>GPEB</td> <td>GPE Bevelled</td> </tr> <tr> <td>BTE</td> <td>Black Threaded Ends</td> <td>GTE</td> <td>Galvanized Threaded Ends</td> </tr> <tr> <td>BTC</td> <td>Black Threaded & Coupled</td> <td>GTC</td> <td>Galvanized Threaded & Coupled</td> </tr> </table> | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | BPEB | BPE Bevelled | GPEB | GPE Bevelled | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, YP method : 0.5% Underload | *5. H : Heat analysis, P : Product analysis |
| BPE | Black Plain Ends | GPE | Galvanized Plain Ends | | | | | | | | | | | | | | | |
| BPEB | BPE Bevelled | GPEB | GPE Bevelled | | | | | | | | | | | | | | | |
| BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | | | | | | | | | | | | | | | |
| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | | | | | | | | |
| | *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace | *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | | | | | | | | | | | | | | |
| | *8. Specimen Size -A: 10x10mm, B: 10x7.5mm, C: 10x6.6mm, D: 10x5.0mm, Direction: Transverse | *9. T.P : Testing Pressure, H.T : Holding Time | | | | | | | | | | | | | | | | |
| | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test | *12. TPI : Threads per inch, ETL : Effective length of threads | | | | | | | | | | | | | | | | |
| | | *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | | | | | | | | | | | | | | |

SURVEYOR: _____ WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B) _____ MANAGER OF Q.A TEAM



ORIGINAL

QUALITY CERTIFICATE



P/O No. : 18285
L/C No. : M931301

CERTIFICATE No. : 140825-291

ISSUED DATE : 2014.08.25

MANUFACTURED No. : 2014-07-203

COMMODITY : E.R.W. STEEL PIPE
API 5L X-42 PSL1/
SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|-------------------------|-----|-------|-----|----|----|-----|----|----|----|----|----|-----|----|---|-----|-----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM |
| | | | | | inch | inch | ft | | | | | | | | | lb/ft | PSI | % | % | PSI | -2 | | | -3 | | | -4 | | | -5 |
| 28 | N14912 | 83 | BPEB | 12 3/4 | 12.750 | 0.250 | 20 | 33.41 | T | 68,020 | 56,852 | 36 | 84 | 71,355 | H | 6 | 2 | 74 | 16 | 4 | 15 | 10 | 20 | TR | 10 | 140 | 10 | | | |
| 29 | N14910 | 2 | BPEB | 12 3/4 | 12.750 | 0.250 | 20 | 33.41 | T | 68,890 | 55,402 | 38 | 80 | 71,501 | P | 6 | 2 | 76 | 16 | 4 | 19 | 10 | 25 | 22 | 11 | 170 | 8 | | | |
| 30 | N14908 | 87 | BPEB | 12 3/4 | 12.750 | 0.250 | 20 | 33.41 | T | 68,455 | 56,852 | 40 | 83 | 72,661 | P | 7 | 2 | 75 | 16 | 4 | 18 | 9 | 24 | 20 | 10 | 166 | 8 | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|------------------|---------|------|---------------|-------------|-----------------|------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | | | °C | g/m ² | TIMES | inch | | HV | Energy (Ind. J) | SIZE | FLANGE TEST | REVERSE FLATTENING TEST | CRUSH TEST | | |
| 28 | 1410 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 29 | 1410 | 5 | GOOD | 930 | | | | | | | | | | | | | |
| 30 | 1410 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

- N O T E**
- *1. Type of Pipe Ends

| | | | |
|------|--------------------------|------|-------------------------------|
| BPE | Black Plain Ends | GPE | Galvanized Plain Ends |
| BPEB | BPE Bevelled | GPEB | GPE Bevelled |
| BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends |
| BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled |
 - *2. O.D : Outside Diameter, W.T : Wall Thickness
 - *3. Direction- L : Longitudinal, T : Transverse
 - *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload
 - *5. H : Heat analysis, P : Product analysis
 - *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace
 - *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone
 - *8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse
 - *9. T.P : Testing Pressure, H.T : Holding Time
 - *10. Heat Treatment Seam Normalizing
 - *11. W.ZC : Weight of Zinc Coating, C.S.T : Copper Sulphate Test
 - *12. T.P.I : Threads per inch, E.T.L : Effective length of threads
 - *13. N.D.T : UT, Reference Standard 3.2 C Drilled Hole

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION
THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B)

[Signature]
MANAGER OF Q.A TEAM

ORIGINAL

QUALITY CERTIFICATE



주식회사 휴스틸

HUSTEEL Co., Ltd.

P/O No. : 18285
L/C No. : M931301

ISSUED DATE : 2014.08.25

COMMODITY : E.R.W. STEEL PIPE
API 5L X-42 PSL1/

SPECIFICATION : ASTM A53B

HEAD OFFICE : SHINAN B/D 15F, 943-19, DAECHE-DONG,
KANGNAM-GU, SEOUL, KOREA
DAEBUL PLANT : 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP,
YEONGAM-GUN, JEOLLANAM-DO, KOREA

CERTIFICATE No. : 140825-291

MANUFACTURED No. : 2014-07-203

SUPPLIER : HUSTEEL CO., LTD.

CUSTOMER : PLESA ANAHUAC Y CIAS., S.A. DE C.V.

| NO. | HEAT_NO | QUAN-TITY | TYPE | NOMINAL SIZE | ORDER SIZE | | | WEIGHT | TENSILE TEST | | | | | CHEMICAL COMPOSITION(%) | | | | | | | | | | | | | | | | |
|-----|---------|-----------|------|--------------|------------|-------|--------|--------|--------------|--------|--------|----|----|-------------------------|-----|-------|-----|----|----|-----|----|----|----|----|----|-----|----|----|-----|-----|
| | | | | | O.D | W.T | LENGTH | | DIR. | TS | YS | EL | YR | WTS | DIV | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | Nb | Ti | B | CEQ | PCM |
| | | | | | inch | inch | ft | | | | | | | | | lb/ft | PSI | % | % | PSI | * | -2 | | | -3 | | | -4 | | |
| 31 | N14900 | 1 | BPEB | 12 3/4 | 12.750 | 0.250 | 20 | 33.41 | T | 67,150 | 55,982 | 38 | 83 | 71,210 | H | 6 | 1 | 78 | 14 | 5 | 18 | 10 | 20 | TR | 10 | 140 | 10 | | | |
| | | | | | | | | | | | | | | | P | 5 | 1 | 79 | 14 | 4 | 16 | 7 | 22 | 10 | 13 | 166 | 9 | | | |
| | | | | | | | | | | | | | | | P | 5 | 1 | 79 | 13 | 4 | 16 | 8 | 22 | 10 | 11 | 153 | 9 | | | |

| NO. | HYDROSTATIC TEST | | | HEAT TREATMENT | ZINC COATING TEST | | THREADS | | HARDNESS TEST | IMPACT TEST | | | *13 N · D · T (UT) | FLATTENING OR BEND TEST | VISUAL & DIMENSION | METALLOGRAPHIC TEST | RESIDUAL MAGNETISM |
|-----|------------------|-----|--------|----------------|-------------------|-------|---------|-----|---------------|-------------|------|------|----------------------|-------------------------|--------------------|---------------------|--------------------|
| | T.P | H.T | RESULT | | WZC | CST | TPI | ETL | | (0) °C | GOOD | GOOD | GOOD | GOOD | GOOD | | |
| | PSI | sec | | | g/m ² | TIMES | | | | | | | | | | inch | HV |
| 31 | 1410 | 5 | GOOD | 930 | | | | | | | | | | | | | |

- Latest edition per API 5L(45th,2013) ASTM(2012)
- HARDNESS MAX 22 HRC AS PER NACE MR 0175

| | | | | | | | | | | | | |
|------|----------------------|--------------------------|------|-------------------------------|--|--|--|--|---|--|--|--|
| NOTE | *1.Type of Pipe Ends | | | | *2. O.D : Outside Diameter, W.T : Wall Thickness | | | | *3. Direction- L : Longitudinal, T : Transverse | | | |
| | BPE | Black Plain Ends | GPE | Galvanized Plain Ends | *4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload | | | | *5. H : Heat analysis, P : Product analysis *6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/100000, Tr : Trace *7. B : Base Metal, W : Weld Line, H : Heat Affected Zone | | | |
| | BPEB | BPE Bevelled | GPEB | GPE Bevelled | *8. Specimen Size -A:10x10mm, B:10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse *9. T.P : Testing Pressure, H.T : Holding Time *10. Heat Treatment Seam Normalizing | | | | *11. WZC : Weight of Zinc Coating, CST : Copper Sulphate Test *12. TPI : Threads per inch, ETL : Effective length of threads *13. NDT : UT, Reference Standard 3.2 C Drilled Hole | | | |
| | BTE | Black Threaded Ends | GTE | Galvanized Threaded Ends | | | | | | | | |
| | BTC | Black Threaded & Coupled | GTC | Galvanized Threaded & Coupled | | | | | | | | |

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SURVEYOR

MANAGER OF Q.A TEAM