

MILL TEST CERTIFICATE

ACC.EN 10204 / 3.1

CUSTOMER : FPC SANTARM SRL
 ORDER : 237790
 CERTIFICATE NO : 000007618
 DATE : 17.08.2023
 PAGE : 1
 COMMODITY : ERW STEEL TUBES
 SPECIFICATION : EN10255M S195T /EN10240 A2 6 m. GPE

| Heat Number | Size (mm) | Length (m) | Standard | Quality | Type | Pcs | B/Pcs | TOTAL LENGTH m | TOTAL WEIGHT kg | End Protect | Bevel Degree | Surf. & Dim. | Bending | Flatten | OFFLINE / ONLINE NDT | | | | Drift | Internal Bead Removed | Drift Expanding Test | Roll Grooving | Coating | Heat Treated °C | Weld Seam Annealed °C | IMPACT STRENGTH | | | | | | | | | | | | |
|-------------|-----------|------------|----------|---------|------|-----|-------|-------------------|--------------------|-------------|--------------|--------------|---------|---------|----------------------|-------------|-------------------------|----------------|-------|--------------------------|-------------------------|---------------|---------|-----------------|--------------------------|-----------------|--------------|------------|------|------|--------------|--------|------------|------------|------|------|------|------|
| | | | | | | | | | | | | | | | Laminasyon | (UT / ET) | Ref Ind. Size 3.2 mm | Ref. Type Hole | | | | | | | | Location | Longitudinal | Transverse | Size | Type | Test Temp °C | Seam J | Material J | Acceptance | | | | |
| 23103414 | 33.7X3.20 | 6.0 | EN10255M | S195T | GPE | 182 | 2/91 | 1092 | 2550 | **** | OK | OK | OK | **** | **** | **** | **** | **** | **** | **** | **** | **** | OK | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** | **** |

| Heat Number | Hydrostatic Test Pressure&Duration | | MECHANICAL PROPERTIES | | | | | | | | CHEMICAL COMPOSITION | | | | | | | | | | | | | | | | | Carbon Equivalent | | | | | | | | | |
|-------------|---------------------------------------|---|-----------------------|--------------|-------------|------|------|----------|---------------------------|----------------|----------------------|-----------------|----|----|---|---|----|----|----|----|----|---|--------------------|---|----|---|----|-------------------|-----|-----------|--------------------|---|---|----|------|------|------|
| | | | Shape | Test Temp °C | Orientation | Type | Size | Location | Tensile Strength N/mm² | Yield Strength | EL | Heat Analysis % | | | | | | | | | | | Product Analysis % | | | | | | Pcm | IIV - CEV | Max. Accept. Value | | | | | | |
| | | | | | | | | | | | | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | C | Si | Mn | | | | P | S | Ti | Cu | Ni | Cr |
| 23103414 | BAR | s | C | ** | L | **** | **** | **** | 441 | 400 | 30 | | | | | | | | | | | | | | | | | | | | | | | | **** | 0.15 | 0.35 |

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE.

Water well casing usage is not acceptable.
 Orientation = L (longitudinal) , Q (transverse) / Shape = C (cylindric) , P (prismatic) / Location = 90 against weld seam / Yield Strength= Rp0.2
 CEV =C+(Mn/6)+((Cr+V+Mo)/5)+((Ni+Cu)/15)

This certificate is prepared in electronic data system and having validity without signature in accordance with item 5 of EN 10204 standard.
 The Construction Products Regulation (CPR) (EU) No 305/2011 By SZUTEST



NDT test are performed according to EN ISO 10893-11 U3/U3H (UT), EN ISO 10893-2 E3/E3H (ET).

Ayşe Çakır
 Laboratory Technician

Digitally signed by Simov Igor
 Date: 2024.01.26 17:03:35 EET
 Reason: MoldSign Signature
 Location: Moldova





Форма EN 10204-3.1
Form EN 10204-3.1

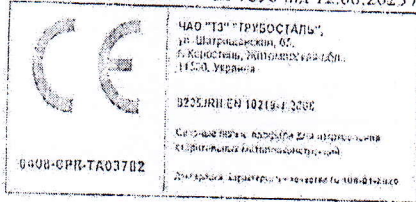
СЕРТИФІКАТ ЯКОСТІ / QUALITY CERTIFICATE
№ 1896 від 12.06.2023 / date 12.06.2023

| Виробник: Україна "Трубосталь" ПрАТ тел. +38 (04142) 3-22-22 Producer: Ukraine, PJSC "Trubostal pipe plant" 11500, Zhitomir region, Korosten, Shalryshanska Str., 65 tel. +38 (04142) 3-22-22 | | | | | | |
|--|----------------|----------------------------|--|------------------------|-------------------|---------------------------------------|
| Замовник / Customer НЕГІШВЕСТ-САМЦ Країна призначення: Україна | | | Замовлення № / Order 112500000118 Контракт № / Contract МЗК-1327342/10/20/СМП-С від 06.10.2020р. | | | |
| Машина № / Carriage № AA3577XH / AA1476XF ТТН № 989 | | | Доповнення до контракту / Supplement to Contract Спец. № / Spec. № 1991 від 31.03.2023 | | | |
| Вид вантажодель - пакети Type of packages bundles | | | Кількість місць / Quality of packages 8 | | | |
| Найменування продукції / Description of goods Труба профільна сталеві / Electrowelded profile steel pipe | | | | | | Стандарт / Standard ДСТУ 8940:2019 |
| Номер пакета Lot number | Плавки Heat | Марка сталі Steel grade | Розміри мм Dimensions, mm | | | Вага нетто, кг / Weight net, kg |
| | | | Діаметр O.D. or I.D. | Товщина стінки W.T. | Довжина Length | |
| 05-309/23 | 0122126-8 | Ст2пс | 40x25 | 2 | 6000 | 1,955 |
| 05-310/23 | 0122126-8 | Ст2пс | 40x25 | 2 | 6000 | 2,000 |
| 05-354/23 | 4200573 | Ст2пс | 40x25 | 2 | 6000 | 2,065 |
| 05-336/23 | 4200573 | Ст2пс | 40x25 | 3 | 6000 | 2,075 |
| 05-332/23 | 4300025-1 | Ст2пс | 40x25 | 3 | 6000 | 2,070 |
| 05-321/23 | 0623055-8 | Ст2пс | 40x25 | 3 | 6000 | 2,045 |
| 05-333/23 | 4300128 | Ст2пс | 40x25 | 2 | 6000 | 2,050 |
| 05-330/23 | 9330054 | Ст2пс | 40x25 | 2 | 6000 | 2,065 |
| | Всього: | | | | | 16,325 |



Digitally signed by Marus Valentina
Date: 2024.02.28 15:07:45 EET
Reason: MoldSign Signature
Location: Moldova





Результати випробувань / Test results

Зразки для випробувань виготовлені з готової продукції і випробувані при температурі 20 ° C
 Samples for testing are made of finished products and tested at a temperature of 20 ° C

| Марка сталі Steel grade | № плавки Heat | Хімічний склад / масова частка елементів Chemical compound / mass fraction of elements | | | | | | | | Механічні властивості Mechanical properties | | | |
|----------------------------|------------------|---|----|-----|----|----|----|----|----|--|--|----------------------------|--|
| | | C | Mn | Si | S | P | Cr | Ni | Cu | Міцність Yield strength, N/mm ² , Rm | Міцність Tensile strength, N/mm ² , Rm | В'язкість Elongation, % | Тиск випробування Hydro pressure, bar, 5 sec. |
| Ст2пс | 0122126-8 | 11 | 42 | 1 | 27 | 15 | 4 | 1 | 1 | 27 | 44,1 | 30 | |
| Ст2пс | 4200573 | 13 | 43 | 1,2 | 24 | 17 | 3 | 1 | 1 | 25 | 45 | 30 | |
| Ст2пс | 4300025-1 | 13 | 39 | 1,4 | 24 | 29 | 4 | 1 | 1 | 24,5 | 46 | 29 | |
| Ст2пс | 0623055-8 | 14 | 68 | 1,3 | 31 | 33 | 5 | 1 | 1 | 25,5 | 45,5 | 31 | |
| Ст2пс | 4300128 | 17 | 41 | 2,6 | 26 | 14 | 2 | 1 | 1 | 25 | 44,5 | 30 | |
| Ст2пс | 9330054 | 17 | 38 | 1 | 23 | 26 | 6 | 1 | 1 | 26,5 | 43,1 | 29 | |

Примітка:

Note:

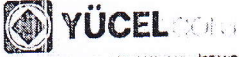
- Візуальний контроль без зауважень.
Visual inspections - without remarks.
- Розміри труб в межах допуску.
Pipe dimensions within tolerance limits in accordance.
- Технологічні випробування без зауважень.
Technological tests - without remarks.
- 100% неруйнівний контроль труб проведено у відповідності з вимогами EN 10219-1, п.9.4.
100% non-destructive pipe inspection is done in accordance with demands of EN 10219-1, p.9.4.
Неруйнівний контроль проведено з задовільним результатом.
Not destructive testing was performed with satisfactory result.

Заявлено в цьому документі продукція відповідає за якість умовам контракту.
 It is hereby certify that the quality of the pipes mentioned in this document is in conformity with the terms and conditions.
 Внесення змін до сертифіката, а також використання даного сертифіката в інших цілях заборонено і тягне за собою кримінальну відповідальність.
 Introduction of any changes into certificate as well as using of the present certificate in other purposes is forbidden and entail criminal responsibility.



Підпис експерта служби технічного контролю
 Technical department signature

Підпис експерта служби з неруйнівного контролю
 Nondestructive control signature



CENTER: Rıhtım cad. No:44 Kadıköy, İSTANBUL / TÜRKİYE
 T: +90 216 418 10 00
 GERZE FACTORY: Barış mah. Koşuyolu cad. No: 12 Gebze, KOCAELİ / TÜRKİYE
 T: +90 262 548 88 00
 Web Adresi: www.yucelboru.com.tr

MILL'S TEST CERTIFICATE
 (ACC. TO EN 10204 / 3.1)
 Yücel Boru ve Profil Endüstrisi A.Ş.

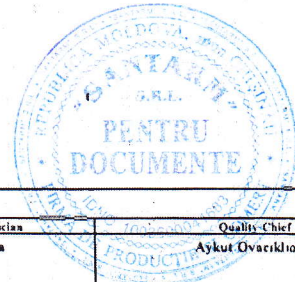


| | | | | | |
|----------|-----------------|----------|----------|------|------------|
| Customer | FPC SANTARM SRL | Order/PO | 237790 | Date | 25.07.2023 |
| Sending | KARAYOLU | Report | 01696974 | Page | 1/1 |

INSPECTION AND TEST RESULTS

MECHANICAL PROPERTIES / CHEMICAL ANALYSIS

| Size x Thickness (mm) | Length (m) | Bundle Rel.No. | PCS | Meter (m) | Weight (Kg) | Product | Quality | Tensile Strength (N/mm ²) | Yield Strength (N/mm ²) | Elong (%) | TEMP (°C) | IMPACT ENERGY (Joule) | | | AVG | C % | Si % | Mn % | P % | S % | Ni % | Cr % | Mo % | V % | Cu % | Al % | Ti % | Nb % | N % | B % | Ceq % | NDT | Type | Heat Number | Dimension Control/Standard |
|-----------------------|------------|----------------|-----|-----------|-------------|---------|---------|---------------------------------------|-------------------------------------|-----------|-----------|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----------|-----------------|----------------------------|
| | | | | | | | | | | | | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 25x2.2 | 6 | 4223012654 | 196 | 1176.0 | 1.520 | SHS | S235JRH | 410 | 390 | 28 | - | - | - | - | 0.040 | 0.029 | 0.390 | 0.011 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.016 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.107 | OK | HR | 6320875 | EN 10219-1:2006 | |
| 25x2.5 | 6 | 4223012655 | 196 | 1176.0 | 1.520 | SHS | S235JRH | 410 | 390 | 28 | - | - | - | - | 0.040 | 0.029 | 0.390 | 0.011 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.016 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.107 | OK | HR | 6320875 | EN 10219-1:2006 | |
| 40x2.2 | 6 | 6523018336 | 144 | 854.0 | 1.879 | SHS | S235JRH | 412 | 348 | 31 | - | - | - | - | 0.070 | 0.010 | 0.370 | 0.014 | 0.008 | 0.010 | 0.010 | 0.002 | 0.003 | 0.001 | 0.054 | 0.001 | 0.001 | 0.007 | 0.000 | 0.135 | OK | HR | P510591 | EN 10219-1:2006 | |
| 40x2.2 | 6 | 6523018337 | 144 | 854.0 | 1.871 | SHS | S235JRH | 416 | 348 | 31 | - | - | - | - | 0.090 | 0.010 | 0.450 | 0.015 | 0.019 | 0.020 | 0.030 | 0.003 | 0.001 | 0.020 | 0.052 | 0.001 | 0.001 | 0.006 | 0.000 | 0.174 | OK | HR | PN01703 | EN 10219-1:2006 | |
| 60x3x2 | 6 | 7123015314 | 112 | 672.0 | 1.652 | RHS | S235JRH | 451 | 344 | 32 | - | - | - | - | 0.160 | 0.010 | 0.320 | 0.015 | 0.015 | 0.010 | 0.220 | 0.001 | 0.001 | 0.001 | 0.032 | 0.001 | 0.001 | 0.001 | 0.000 | 0.258 | OK | HR | D23603139 | EN 10219-1:2006 | |
| 60x3x2 | 6 | 7123015313 | 112 | 672.0 | 1.678 | RHS | S235JRH | 460 | 344 | 34 | - | - | - | - | 0.140 | 0.010 | 0.330 | 0.022 | 0.010 | 0.010 | 0.210 | 0.001 | 0.001 | 0.001 | 0.031 | 0.001 | 0.001 | 0.001 | 0.000 | 0.238 | OK | HR | D23703650 | EN 10219-1:2006 | |
| 60 x4 | 6 | 5023019034 | 37 | 222.0 | 1.118 | CHS | S235JRH | 427 | 337 | 26 | - | - | - | - | 0.146 | 0.018 | 0.400 | 0.013 | 0.007 | 0.001 | 0.001 | 0.001 | 0.001 | 0.017 | 0.001 | 0.001 | 0.000 | 0.001 | 0.000 | 0.214 | OK | HR | 5312438 | EN 10219-1:2006 | |
| 60 x4 | 6 | 5023019035 | 37 | 222.0 | 1.117 | CHS | S235JRH | 427 | 337 | 26 | - | - | - | - | 0.146 | 0.018 | 0.400 | 0.013 | 0.007 | 0.001 | 0.001 | 0.001 | 0.001 | 0.017 | 0.001 | 0.001 | 0.000 | 0.001 | 0.000 | 0.214 | OK | HR | 5312438 | EN 10219-1:2006 | |
| 60 x4 | 6 | 5023019033 | 37 | 222.0 | 1.118 | CHS | S235JRH | 430 | 322 | 34 | - | - | - | - | 0.154 | 0.015 | 0.400 | 0.016 | 0.008 | 0.001 | 0.001 | 0.001 | 0.001 | 0.014 | 0.001 | 0.001 | 0.000 | 0.001 | 0.000 | 0.222 | OK | HR | 5313454 | EN 10219-1:2006 | |
| 76 x2 | 6 | 8023023579 | 37 | 222.0 | 733 | CHS | S235JRH | 433 | 375 | 26 | - | - | - | - | 0.048 | 0.014 | 0.190 | 0.013 | 0.018 | 0.150 | 0.100 | 0.027 | 0.002 | 0.490 | 0.028 | 0.001 | 0.001 | 0.008 | 0.000 | 0.148 | OK | HR | 23203997 | EN 10219-1:2006 | |
| 76 x2 | 6 | 8023023580 | 37 | 222.0 | 733 | CHS | S235JRH | 433 | 375 | 26 | - | - | - | - | 0.048 | 0.014 | 0.190 | 0.013 | 0.018 | 0.150 | 0.100 | 0.027 | 0.002 | 0.490 | 0.028 | 0.001 | 0.001 | 0.008 | 0.000 | 0.148 | OK | HR | 23203997 | EN 10219-1:2006 | |
| 76 x2 | 6 | 8023023581 | 37 | 222.0 | 732 | CHS | S235JRH | 433 | 375 | 26 | - | - | - | - | 0.048 | 0.014 | 0.190 | 0.013 | 0.018 | 0.150 | 0.100 | 0.027 | 0.002 | 0.490 | 0.028 | 0.001 | 0.001 | 0.008 | 0.000 | 0.148 | OK | HR | 23203997 | EN 10219-1:2006 | |
| 76 x2 | 6 | 8023023582 | 37 | 222.0 | 732 | CHS | S235JRH | 433 | 375 | 26 | - | - | - | - | 0.048 | 0.014 | 0.190 | 0.013 | 0.018 | 0.150 | 0.100 | 0.027 | 0.002 | 0.490 | 0.028 | 0.001 | 0.001 | 0.008 | 0.000 | 0.148 | OK | HR | 23203997 | EN 10219-1:2006 | |



| | | |
|--|-----------------------|-------------------|
| WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE. This certificate is prepared in electronic data system and having validity without signature in accordance with Item 5 of EN 10204 standart. | Laboratory Technician | Quality Chief |
| | Haydar Kara | Aykut Övçaklıoğlu |

MILL TEST CERTIFICATE
 ACC.EN 10204 / 3.1

CUSTOMER: FPC SANTIARM SRL
 ORDER: 230390
 CERTIFICATE NO: 0000007214
 DATE: 18.02.2023
 COMMODITY: ERW STEEL TUBES
 SPECIFICATION: EN10217-1 P235TR1 6 m. BPE

| Heat Number | Size (mm) | Length (m) | Standard | Quality | Type | Pcs | B/Pcs | TOTAL LENGTH m | TOTAL WEIGHT kg | End Protect | Bevel Degree | Surf. & Dim. | Bending | Flatten | OFFLINE / ONLINE NDT | | | Expanding Test | Roll Grooving | Coating | Heat Treated °C | Annealed °C | IMPACT STRENGTH | | | | | | | | | | | | | | | |
|-------------|-----------|------------|-----------|---------|------|-----|-------|-------------------|--------------------|-------------|--------------|--------------|---------|---------|----------------------|-----------|-------------------------|----------------|---------------|---------|-----------------|-------------|-----------------|-------|--------------------------|-------|----------|--------------|------------|------|------|--------------|--------|------------|------------|----|----|----|
| | | | | | | | | | | | | | | | Lamination | (UT / ET) | Ref Ind. Size 3.2 mm | | | | | | Ref. Type Hole | Drift | Internal Bead Removed | Drift | Location | Longitudinal | Transverse | Size | Type | Test Temp °C | Seam J | Material J | Acceptance | | | |
| 2228448 | 88.9x4.00 | 6.0 | EN10217-1 | P235TR1 | BPE | 312 | 13/24 | 1872 | 11701 | OK | OK | OK | OK | OK | OK | ET | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | |
| 2227461 | 88.9x3.00 | 6.0 | EN10217-1 | P235TR1 | BPE | 216 | 9/24 | 1296 | 7999 | OK | OK | OK | OK | OK | OK | ET | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |

| Heat Number | Hydrostatic Test Pressure & Duration | | Shape | | Test Temp °C | Orientation | Type | Size | Location | Tensile Strength N/mm ² | Yield Strength | El | MECHANICAL PROPERTIES | | | | | | | | | | | | | CHEMICAL COMPOSITION | | | | | | | | | | | | | Carbon Equivalent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--------------------------------------|---|-------|----|--------------|-------------|-------|-------|----------|---------------------------------------|----------------|----|-----------------------|-------------|-------|-------|----------|---------------------------------------|----------------|-------|-----------------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | BAR | s | S | P | | | | | | | | | Test Temp °C | Orientation | Type | Size | Location | Tensile Strength N/mm ² | Yield Strength | El | Heat Analysis % | | | | | | | | | | | | | Product Analysis % | | | | | | | | | | | | | Pcm | IMW - CEV | Max. Accept. Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2228448 | 70 | 5 | P | RT | 27 | L | | | | 382 | 287 | 27 | | 0.076 | 0.023 | 0.470 | 0.012 | 0.015 | 0.001 | 0.045 | 0.030 | 0.047 | 0.005 | 0.002 | 0.001 | 0.007 | 0.040 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.076 | 0.023 | 0.470 | 0.012 | 0.015 | 0.001 | 0.045 | 0.030 | 0.047 | 0.005 | 0.002 | 0.001 | 0.007 | 0.040 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 |
| 2227461 | 70 | 5 | P | RT | 41 | L | | | | 380 | 274 | 41 | | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | 0.073 | 0.013 | 0.471 | 0.013 | 0.015 | 0.001 | 0.039 | 0.025 | 0.042 | 0.007 | 0.001 | 0.001 | 0.006 | 0.041 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE.

Water well casing usage is not acceptable.
 Orientation = L (longitudinal), O (transverse) / Shape = C (cylindrical), F (prismatic) / Yield Strength= Rp0.2
 CEV = C + (Mn/6) + [(Cr+Mo)/5] + [(Ni+Cu)/15]
 This certificate is prepared in electronic data system and having validity without signature in accordance with item 5 of EN 10204 standard.
 The Construction Products Regulation (CPR) (EU) No. 305/2011 by SUDI TEST
 NDT test are performed according to EN ISO 10893-11 U3/U3H (UT), EN ISO 10893-2 E3/E3H (ET).



MILL TEST CERTIFICATE

ACC.EN 10204 / 3.1

CUSTOMER: FPC SANT'ARM SRL
 ORDER: 232010
 CERTIFICATE NO: 0000007263
 DATE: 23.03.2023
 PAGE: 2
 COMMODITY: ERW/STEEL TUBES
 SPECIFICATION: EN10255 L1 S195T / EN10240 A2 6 m GPE

OFFLINE / ONLINE NDT
 Lamination: *****
 (UT / ET): *****
 Ref Ind Size: 3.2 mm *****
 Ref Type Hole: *****

IMPACT STRENGTH
 Location: *****
 Longitudinal: *****
 Transverse: *****
 Size: *****
 Type: *****
 Test Temp °C: *****

Heat Treated °C: *****
 Weld Seam: *****
 Annealed °C: *****
 Location: *****
 Longitudinal: *****
 Transverse: *****
 Size: *****
 Type: *****
 Test Temp °C: *****

Coating: *****
 Roll Grooving: *****
 Expanding Test: *****
 Drift: *****
 Internal Bead: *****
 Removed: *****
 Drift: *****

Flatten: *****
 Bending: *****
 Surf. & Dim.: *****
 Bevel Degree: *****
 End Protect: *****

TOTAL WEIGHT kg: 4748
 TOTAL LENGTH m: 218
 B/Pcs: 4/19
 Pcs: 76
 Type: GPE

Standard: EN10255L1 S195T
 Quality: S195T
 Length (m): 6.0
 Size (mm): 114.3x4.00

Heat Number: SK86096
 Length (m): 6.0
 Size (mm): 114.3x4.00
 Heat Number: SK86177

| Heat Number | Hydrostatic Test Pressure & Duration | Shape | Test Temp °C | Orientation | Type | Size | Location | Tensile Strength | Yield Strength | EL | MECHANICAL PROPERTIES | | | | | | | | | | | | | | CHEMICAL COMPOSITION | | | | | | | | | | | | | | Carbon Equivalent | |
|-------------|--------------------------------------|-------|--------------|-------------|-----------|------|----------|------------------|----------------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----|----|---|----|---|----|----------------------|----|----|---|---|----|----|----|----|----|---|----|---|----|-------------------|--------------------|
| | | | | | | | | | | | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | C | Si | Mn | P | S | Ti | Cu | Ni | Cr | Mo | V | Nb | N | Al | Pcm | Max. Accept. Value |
| SK86096 | 5 BAR | S | 20 | L | Prismatic | 50 | 0.162 | 0.017 | 0.498 | 0.009 | 0.007 | 0.158 | 0.018 | 0.493 | 0.009 | 0.008 | 0.250 | 0.350 | | | | | | | | | | | | | | | | | | | | | | |
| SK86177 | 5 BAR | S | 20 | L | Prismatic | 50 | 0.162 | 0.017 | 0.498 | 0.009 | 0.007 | 0.158 | 0.018 | 0.493 | 0.009 | 0.008 | 0.240 | 0.350 | | | | | | | | | | | | | | | | | | | | | | |

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE.

Water well casing usage is not acceptable.
 Orientation = L (longitudinal), Q (transverse) / Shape = C (cylindrical), P (prismatic) / Yield Strength = Rp0.2

CEV = C+(Mn/6)+[(Cr+Mo)/5]+[(Ni+Cu)/15]

This certificate is prepared in electronic data system and having validity without signature in accordance with item 5 of EN 10204 standard.

The Construction Products Regulation (CPR) (EU) No 305/2011 By SCUTEST

NDT test are performed according to EN ISO 10893-11 U3/UBH (UT), EN ISO 10893-2 E3/E3H (ET).

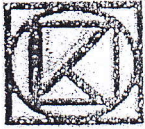
FR.KAL.15.02 / Rev.1.0 / 07.06.2019



AYE CAKIR
 Laboratory Technician

CE 1015

СЕРТИФИКАТ ИСПЫТАНИЙ № 2-749 ОТ 24.02.2023
INSPECTION CERTIFICATE
 (EN 10204-3.1)



| | | | | |
|---|---|------------------|--------------|--------------|
| Производитель: Producer: ООО "ДМЗ КОМИНМЕТ" LLC "DMZ KOMINMET" 7, Yakhnenkovskaya str. 49023 Dnepr, Ukraine | Contract № Contract | № 11-299-23 | Дата Date | 12.12.2022 |
| | Дополнение к контракту: Addendum to the contract | | | |
| Потребитель, адрес, страна: Consumer, address, country: SANTARM S.R.L. FPC Республика Молдова, MD-2023, г.Кишинев, ул.Узинелор, 78. | | | | |
| Дата отгрузки Ship Date | 24.02 | 2023 | | |
| Машина № Carriage | AP2945CE | Заказ № Order | 000001513 | Дата Date |

| | | | |
|---|---|----------------------|----------------|
| Наименование товара и состояние пост Description of goods and delivery condition | трубы стальные сварные steel welded tube | Стандарт Standard | DIN EN 10219-1 |
|---|---|----------------------|----------------|

Маркировка/Marking; Содержание маркировки/Contents of the marking,
 Знак изготовителя труб/Pipe manufacturer label; Номер стандарта/Standard number; Марка стали/Grade; Номер плавки/партии /Heat/Lot number; Знак ответственного за приемку/Mark of the responsible for acceptance person;
 Наружный диаметр трубы/Outer pipe diameter; Толщина стенки/Wall thickness; Общий вес/Total weight;
 Длина/Length; Количество/Quantity

| | |
|--|---|
| Размер (Dimension) Дн 108 Дн 133 | Номера пакетов 264126 264128 264129 264130 264131 264132 264133 264134 264135 264136 263730 263731 |
|--|---|

| № | Номера партий Lot number | Номера плавок Heat number | Марка стали Grade | Размеры, мм Dimension, mm | | Количество товара, шт. Quantity of goods, pcs | Метраж, м Length, m | Теоретическая масса, кг Theoretic mass kg |
|---|-----------------------------|------------------------------|----------------------|------------------------------------|----------------------------------|--|------------------------|--|
| | | | | Наружный диаметр Outer diameter | Толщина стенки Wall thickness | | | |
| 1 | 760 | 311597 | S235JRH | 133 | 4,00 | 48 | 288,00 | 3,135 |
| 2 | 833 | 111049 | S235JRH | 108 | 3,00 | 440 | 2 640,00 | 19,125 |

| Номер плавки/ Номер партии Heat number/ Lot number | Химический состав, % Chemical composition, % | | | | | | | | | | |
|---|---|------|------|-------|-------|------|------|------|-------|-------|------|
| | C | Si | Mn | S | P | Cr | Ni | Cu | Al | Ca | CFV |
| 760 / 311597 | 0,08 | 0,02 | 0,18 | 0,008 | 0,008 | 0,04 | 0,02 | 0,02 | 0,002 | 0,004 | 0,03 |
| 833 / 111049 | 0,08 | 0,01 | 0,18 | 0,008 | 0,011 | 0,04 | 0,02 | 0,03 | 0,002 | 0,004 | 0,02 |



TEST SERTİFİKASI
MILL TEST CERTIFICATEEN
10204-3.1

DESCRIPTION OF GOODS:
ÖZBEYLER METAL



MÜŞTERİ ADI & ADRESİ
NAME & ADDRESS OF THE CUSTOMER

SERTİFİKA NO / CERTIFICATE NO
: 20210209-001
SAYFA / PAGE NO
: 1
SEVK TARİHİ / DATE OF DISPATCH
: 25.8.2022
SERTİFİKA TARİHİ / CERT. DATE
: EN 10204-3.1
SERTİFİKA NORMU / CERT. NORM



2737-CPR-19-IS-0078-TAT-0088

CE marking applies to those produced in accordance with EN 10219
CE marklaması EN 10219 kapsamında üretilen ürünler için gereklidir

| MÜŞTERİ ADI & ADRESİ NAME & ADDRESS OF THE CUSTOMER | | | | DESCRIPTION OF GOODS: ÖZBEYLER METAL | | | | TEST SERTİFİKASI MILL TEST CERTIFICATEEN 10204-3.1 | | | | | | | | | | SERTİFİKA NO / CERTIFICATE NO : 20210209-001 SAYFA / PAGE NO : 1 SEVK TARİHİ / DATE OF DISPATCH : 25.8.2022 SERTİFİKA TARİHİ / CERT. DATE : EN 10204-3.1 SERTİFİKA NORMU / CERT. NORM | | | | CE | 2737-CPR-19-IS-0078-TAT-0088 | | | | | | | |
|--|---------------|-----------|---------------|---|-----------|----------|-------|--|-------|-------|-------|-------|-------|-------------------------------------|-------------------------|-------------------------|-------|---|----------------|--|--|----|------------------------------|--|--|--|--|--|--|-----|
| ETİKET BİLGİSİ / INFORMATION | | | | | | | | | | | | | | KİMYASAL ANALİZ / CHEMICAL ANALYSIS | | | | | | | | | | MEKANİK ÖZELLİKLER / MECHANICAL PROPERTIES | | | | | | V.1 |
| SIRA | LOT | ÜRÜN TİPİ | ÜRT. NORM. | KALİTE | EBAT | DÖKÜM | C | Si | S | Mn | P | AI | N | Cev | AKMA | ÇEKME | UZAMA | DARBE/IMPACT TEST | Görsel Muayene | | | | | | | | | | | |
| ITEM | NO | TYPE | PRODUCT. NORM | GRADE | SIZE | HEAT NO | % | % | % | % | % | % | % | % | YS (N/mm ²) | TS (N/mm ²) | E (%) | IE | Visual Insp. | | | | | | | | | | | |
| 1 | 2104506000 | CHS | EN 10219-1 | S235JRH | Ø159x5,00 | 21045060 | 0,070 | 0,018 | 0,009 | 0,210 | 0,011 | 0,034 | 0,008 | 0,140 | 310 | 422 | 27,50 | | G | | | | | | | | | | | |
| | 2220001043891 | CHS | EN 10219-1 | S235JRH | Ø219x5,00 | 1043891 | 0,040 | 0,020 | 0,008 | 0,240 | 0,012 | 0,028 | 0,007 | 0,130 | 323 | 431 | 28,30 | | G | | | | | | | | | | | |

G : İyi / Good
YS : Akma Muk./Yield Strength (N/mm²)
TS : Çekme Muk./Tensile Strength (N/mm²)
E : Uzama/Elongation (%)
IE : Darbe Enerjisi/Impact Energy

ONAY / APPROVED BY
Kalite Kontrol Şefi/QC Manager

CHS: Sanayi Borusu / Industrial Pipe
GSC: Galvanizli Konstrüksiyon Borusu / Galvanised Construction Pipe
PGS: Pre-Galvanised
R: Dikdörtgen Kutu Profil / Rectangular Hollow Section
S: Kare Kutu Profil / Square Hollow Section



YÜCELboru

CENTER: Rihim cad. No:44 Kadıköy, İSTANBUL / TÜRKİYE
CEBŞE / FİCİTİB / YÜCELboru Bazar mah. Koşuyolu cad. No: 12 Gebze, KOCAELİ / TÜRKİYE
T: +90 262 648 68 00
Web Adresi: www.yucelboru.com.tr

MILL'S TEST CERTIFICATE
(ACC. TO EN 10204 / 3.1)
Yücel Boru ve Profil Endüstrisi A.Ş.



| | | | | | |
|----------|-----------------|----------|----------|------|------------|
| Customer | FPC SANTARM SRL | Order/PO | 2312180 | Date | 23.02.2024 |
| Sending | KARAYOLU | Report | 01750582 | Page | 1/1 |

INSPECTION AND TEST RESULTS

MECHANICAL PROPERTIES / CHEMICAL ANALYSIS

| Size x Thickness (mm) | Length (m) | Bundle Ref.No. | PCS | Meter (m) | Weight (Kg) | Product | Quality | Tensile Strength (N/mm ²) | Yield Strength (N/mm ²) | Elong (%) | IMPACT ENERGY (Joule) | | | AVG | C | Si | Mn | P | S | Ni | Cr | Mo | V | Cu | Al | Ti | Nb | N | B | Ceq % | NDT Type | Heat Number | Dimension Control Standard | |
|-----------------------|------------|----------------|-----|-----------|-------------|---------|---------|---------------------------------------|-------------------------------------|-----------|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|----------------------------|----------------|
| | | | | | | | | | | | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 219.1x6 | 6 | 8223058912 | 7 | 42.0 | 820 | CHS | S235JRH | 416 | 337 | 30 | - | - | - | 0.063 | 0.029 | 0.215 | 0.007 | 0.013 | 0.108 | 0.102 | 0.021 | 0.001 | 0.001 | 0.451 | 0.067 | 0.001 | 0.001 | 0.009 | 0.001 | 0.161 | OK | HR | 23106684 | EN 10219-12006 |



Digitally signed by Marus Valentina
Date: 2024.02.28 15:31:43 EET
Reason: MoldSign Signature
Location: Moldova



WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE.
This certificate is prepared in electronic data system and having validity without signature in accordance with item 5 of EN 10204 standart.

Laboratory Technician

Haydar Kara

Quality Chief

Aykut Ovackioğlu

OP4.F16 / 19.10.2020