

Aamir Shahzad
Alvi

Test Performed By: Dr. /Engr. Wasim Abbas

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/141

Dated : 03-10-2023

SOM Lab Ref: CED/SOM/2955(Page-1/1)

Dated : 03-10-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 m

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | kg/m | mm | mm | mm ² | mm ² | kN | kN | MPa | MPa | MPa | MPa | mm | m | % | |
| 1 | 2.470 | 20 | 20.03 | 314 | 315 | 177.20 | 228.20 | 564 | 563 | 726 | 725 | 30.0 | 200 | 15.0 | |
| 2 | 2.516 | 20 | 20.20 | 314 | 321 | 176.50 | 227.00 | 562 | 551 | 723 | 709 | 25.0 | 200 | 12.5 | |
| 3 | 0.870 | 12 | 11.88 | 113 | 111 | 60.70 | 82.20 | 537 | 548 | 727 | 742 | 27.5 | 200 | 13.8 | |
| 4 | 0.877 | 12 | 11.93 | 113 | 112 | 62.20 | 83.50 | 550 | 557 | 738 | 748 | 25.0 | 200 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|------|--|---|
| 16mm | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Six Samples Received and Tested |
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack | |
| | | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Zaheer Iqbal Architects
Calvary Ground , Cantt Lahore.

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Nil

Dated: 03-10-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2950 (Page-1/1)

Dated: 03-10-2023

ASTM-A-615

Deformed

Bar

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | lb/ft | # | in | in ² | in ² | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 2.630 | 8 | 0.992 | 0.79 | 0.773 | 25.89 | 34.51 | 72290 | 73870 | 96330 | 98450 | 1.10 | 8.0 | 13.8 | |
| 2 | 2.601 | 8 | 0.986 | 0.79 | 0.764 | 25.08 | 33.56 | 70010 | 72390 | 93680 | 96870 | 1.20 | 8.0 | 15.0 | |
| 3 | 1.483 | 6 | 0.745 | 0.44 | 0.436 | 13.93 | 18.93 | 69850 | 70490 | 94880 | 95760 | 1.50 | 8.0 | 18.8 | |
| 4 | 1.473 | 6 | 0.743 | 0.44 | 0.433 | 13.78 | 18.71 | 69080 | 70200 | 93760 | 95280 | 1.50 | 8.0 | 18.8 | |
| 5 | 0.665 | 4 | 0.498 | 0.20 | 0.195 | 6.27 | 8.36 | 69130 | 70910 | 92180 | 94540 | 1.30 | 8.0 | 16.3 | |
| 6 | 0.664 | 4 | 0.498 | 0.20 | 0.195 | 6.34 | 8.41 | 69920 | 71710 | 92740 | 95120 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|---|---|
| # 8 | Sample bend through 90 degrees Satisfactorily without any crack | Note:- Only Nine Samples Received and Tested |
| # 6 | Sample bend through 90 degrees Satisfactorily without any crack | |
| # 4 | Sample bend through 90 degrees Satisfactorily without any crack | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Deputy Director Buildings,LDA

Test Performed By: Dr./Engr. Wasim Abbas

Lhr.(Orange Line Metro Train Project Chouburji To Ali Town-Reconst. Of Jamia Masjid Muhammadia)

Client Reference: DDB/LDA/321

SOM Lab

Ref: 2951 (Page-1/1)

Dated: 25-09-2023

Dated: 03-10-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed

Bar

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | lb/ft | # | in | in ² | in ² | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 2.624 | 8 | 0.991 | 0.79 | 0.771 | 23.01 | 38.25 | 64230 | 65810 | 106780 | 109410 | 1.40 | 8.00 | 17.5 | |
| 2 | 1.431 | 6 | 0.732 | 0.44 | 0.421 | 10.63 | 17.13 | 53290 | 55700 | 85840 | 89720 | 1.40 | 8.00 | 17.5 | |
| 3 | 0.700 | 4 | 0.512 | 0.20 | 0.206 | 5.25 | 7.85 | 57890 | 56210 | 86560 | 84040 | 1.00 | 8.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Six Samples Received and Tested |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Arfat,RE

Test Performed By: Dr. /Engr. Wasim Abbas

ACE-Arts (Consultants) UAEET Sambrial,Sialkot.(Estb Of UAEET Sambrial,Sialkot)

Client Reference: ER/UAEET/ACE/ME/2023/46

SOM Lab

Ref: 2953 (Page-1/1)

Dated: 03-10-2023

Dated: 03-10-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo Steel)

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | lb/ft | # | in | in ² | in ² | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 2.646 | 8 | 0.995 | 0.79 | 0.778 | 24.74 | 33.74 | 69070 | 70140 | 94200 | 95650 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.644 | 8 | 0.995 | 0.79 | 0.777 | 25.28 | 34.53 | 70580 | 71760 | 96390 | 98000 | 1.40 | 8.0 | 17.5 | |
| 3 | 2.639 | 8 | 0.994 | 0.79 | 0.776 | 25.56 | 34.71 | 71350 | 72630 | 96900 | 98650 | 1.40 | 8.0 | 17.5 | |
| 4 | 2.654 | 8 | 0.997 | 0.79 | 0.780 | 24.57 | 34.22 | 68590 | 69470 | 95530 | 96760 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Six Samples Received and Tested |
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | |
| | | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Ali Raza
City Builders Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: CB/KCW/UET-08

SOM Lab

Ref: 2954 (Page-1/1)

Dated: 03-10-2023

Dated: 03-10-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed

Gauge Length: 8 h

Sample Type:

Bar

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | lb/ft | # | in | in ² | in ² | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 2.623 | 8 | 0.991 | 0.79 | 0.771 | 27.03 | 34.00 | 75470 | 77330 | 94910 | 97250 | 1.30 | 8.0 | 16.3 | |
| 2 | 2.641 | 8 | 0.994 | 0.79 | 0.776 | 27.34 | 34.63 | 76330 | 77700 | 96670 | 98420 | 1.40 | 8.0 | 17.5 | |
| 3 | 1.447 | 6 | 0.736 | 0.44 | 0.425 | 14.14 | 19.47 | 70870 | 73370 | 97590 | 101040 | 1.20 | 8.0 | 15.0 | |
| 4 | 1.444 | 6 | 0.735 | 0.44 | 0.424 | 14.29 | 19.78 | 71640 | 74340 | 99130 | 102870 | 1.50 | 8.0 | 18.8 | |
| 5 | 0.667 | 4 | 0.500 | 0.20 | 0.196 | 6.88 | 8.61 | 75880 | 77430 | 94990 | 96930 | 1.00 | 8.0 | 12.5 | |
| 6 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 6.80 | 8.46 | 74980 | 76120 | 93300 | 94720 | 1.40 | 8.0 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|--|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Nine Samples Received and Tested |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Syed Qamar Nisar Ali

Test Performed By: Dr. /Engr. Wasim Abbas

AE B&R GE(Air) Rafiqui.(Rehb/Extension Of Block No W.1 at PAF Base Rafiqui)

Client Reference: 6691/37/E-6

SOM Lab

Ref: 2956 (Page-1/1)

Dated: 27-09-2023

Dated: 03-10-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed

Gauge Length: 8 h

Sample Type:

Bar

| S.No. | Weight | Dia. | | Area | | Yield Load | Ultimate Load | Yield Stress | | Ult. Stress | | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
| | | Nominal | Calculated | Nominal | Calculated | | | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) | | | | |
| | lb/ft | # | in | in ² | in ² | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 0.630 | 4 | 0.485 | 0.20 | 0.185 | 4.51 | 6.65 | 49690 | 53720 | 73290 | 79230 | 1.20 | 8.0 | 15.0 | |
| 2 | 0.642 | 4 | 0.491 | 0.20 | 0.189 | 4.51 | 6.73 | 49690 | 52580 | 74190 | 78510 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Three Samples Received and Tested |
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| | | |
| | | |

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Test Performed by: .S. Asad Ali Gillani

TR Construction
Engineer & Contractors,
85-D, The Mall Road Lahore.

Client Reference No.: Nil
SOM Lab Ref: CED/SOM/2952 (Page 1/1)
Test Type: Load Test

Dated: 03-10-2023
Dated: 03-10-2023

Sample Type: MS Pipe Dia 2 Inch

Load Test Results

| Sr No. | Sample Type | Remarks |
|--------|-------------------------------------|---|
| 1 | MS Pipe Dia 2 Inch (Compression) | Sample remains satisfactory at proof load of 5 Tons |

Note: Please always confirm the results on web www.uet-civil.edu.pk

