

Muhammad Irfan
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: DOC-BMC/AJWA/097

SOM Lab

Ref: 2753 (Page-1/1)

Dated: 28-08-2023

Dated: 29-08-2023

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 | 2.738 | 8 | 1.012 | 0.79 | 0.805 | 25.91 | 37.64 | 72340 | 70990 | 105070 | 103110 | 1.30 | 8.00 | 16.3 | |
| 2 | 2.680 | 8 | 1.002 | 0.79 | 0.788 | 24.69 | 36.00 | 68930 | 69100 | 100510 | 100770 | 1.40 | 8.00 | 17.5 | |
| 3 | 1.458 | 6 | 0.738 | 0.44 | 0.428 | 13.68 | 17.84 | 68570 | 70490 | 89420 | 91920 | 1.50 | 8.00 | 18.8 | |
| 4 | 1.463 | 6 | 0.740 | 0.44 | 0.430 | 14.70 | 19.24 | 73680 | 75390 | 96420 | 98660 | 1.30 | 8.00 | 16.3 | |
| 5 | 1.452 | 6 | 0.737 | 0.44 | 0.427 | 14.17 | 18.37 | 71020 | 73190 | 92070 | 94880 | 1.30 | 8.00 | 16.3 | |
| 6 | 1.507 | 6 | 0.751 | 0.44 | 0.443 | 16.18 | 20.25 | 81090 | 80540 | 101530 | 100840 | 1.20 | 8.00 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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 | |
| # 6 | 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

Sub Divisional officer, Test Performed By: Dr. /Engr. Wasim Abbas
HSD Chiniot.(Reh/Imp Of Road From Chiniot To Sahiwala Interchange Up Distt Boundary Chiniot)

Client Reference: 353/CH

Dated: 10-08-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2754 (Page-1/1)

Dated: 29-08-2023

ASTM-A-615

Plain 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 | 2.687 | 8 | 1.003 | 0.799 | 0.790 | 17.40 | 26.93 | 48580 | 48580 | 75190 | 75190 | 2.20 | 8.0 | 27.5 | |
| 2 | 1.552 | 6 | 0.762 | 0.44 | 0.456 | 11.34 | 17.96 | 56820 | 54830 | 90030 | 86870 | 1.60 | 8.0 | 20.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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

Nabeel Ashraf Assistant Engr Evacuee Trust Property Board GOP.(Dilapidated Slab Of Dyal Sigh Trust Library Lhr)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 5715

Dated: 28-08-2023

Test: Tension Test & Bend Test inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2755 (Page-1/1)

Dated: 29-08-2023

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 | 1.068 | 5 | 0.632 | 0.31 | 0.314 | 10.21 | 14.29 | 72670 | 71740 | 101680 | 100380 | 1.20 | 8.00 | 15.00 | |
| 2 | 1.069 | 5 | 0.632 | 0.31 | 0.314 | 10.11 | 14.32 | 71940 | 71030 | 101890 | 100600 | 1.20 | 8.00 | 15.00 | |
| 3 | 0.652 | 4 | 0.494 | 0.20 | 0.192 | 5.66 | 8.51 | 62390 | 64990 | 93860 | 97770 | 1.20 | 8.00 | 15.00 | |
| 4 | 0.648 | 4 | 0.492 | 0.20 | 0.190 | 5.58 | 8.46 | 61490 | 64730 | 93300 | 98210 | 1.20 | 8.00 | 15.00 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|---|
| # 5 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Six Samples Received and Tested |
| # 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

Capital Construction Co
Lahore.(Construction Of MCH Hospital Shadman Market,Road Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: 1382021CCC

SOM Lab

Ref: 2757 (Page-1/1)

Dated: 29-08-2023

Dated: 29-08-2023

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 | 2.635 | 8 | 0.993 | 0.79 | 0.774 | 27.37 | 35.75 | 76410 | 77990 | 99800 | 101870 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.613 | 8 | 0.989 | 0.79 | 0.768 | 27.08 | 35.37 | 75610 | 77780 | 98750 | 101580 | 1.30 | 8.0 | 16.3 | |
| 3 | 1.044 | 5 | 0.625 | 0.31 | 0.307 | 10.42 | 13.48 | 74120 | 74840 | 95880 | 96810 | 1.30 | 8.0 | 16.3 | |
| 4 | 1.040 | 5 | 0.624 | 0.31 | 0.306 | 10.27 | 13.43 | 73030 | 73990 | 95510 | 96760 | 1.40 | 8.0 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Six Samples Received and Tested |
| # 5 | 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

Engr. Muhammad Mohsin
Site Engineer S. Mehboob & Company.

Test Performed By: Dr. /Engr.

Nauman
Khurram

Client Reference: SMC/Carrefour/LHR/DHA11/03

Dated: 29-08-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2756 (Page-1/1)

Dated: 29-08-2023

ASTM-A-615

Deformed Bar (Kamran
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 | 1.479 | 6 | 0.744 | 0.44 | 0.435 | 14.53 | 20.05 | 72810 | 73650 | 100500 | 101660 | 1.20 | 8.0 | 15.0 | |
| 2 | 0.600 | 4 | 0.473 | 0.20 | 0.176 | 5.37 | 7.41 | 59240 | 67320 | 81720 | 92870 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|--|
| # 6 | 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 | |
| # 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

Waqar Ahmad, RE

Test Performed By: Dr. /Engr. Wasim Abbas

Nespak Lhr.(Overhead Pedestrian Crossing Facilities On Different Locations)(P/Bridge No.2)

Client Reference: 4567/03/WA/01/004

SOM Lab

Ref: 2758 (Page-1/1)

Dated: 11-08-2023

Dated: 29-08-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed Bar (FF

Gauge Length: 8 h

Sample Type:

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 | 1.533 | 6 | 0.758 | 0.44 | 0.451 | 14.37 | 19.67 | 72050 | 70290 | 98610 | 96210 | 1.50 | 8.0 | 18.8 | |
| 2 | 1.532 | 6 | 0.757 | 0.44 | 0.450 | 14.39 | 19.72 | 72150 | 70550 | 98870 | 96670 | 1.50 | 8.0 | 18.8 | |
| 3 | 0.669 | 4 | 0.501 | 0.20 | 0.197 | 6.24 | 8.36 | 68800 | 69840 | 92180 | 93580 | 1.00 | 8.0 | 12.5 | |
| 4 | 0.669 | 4 | 0.501 | 0.20 | 0.197 | 6.27 | 8.33 | 69130 | 70190 | 91840 | 93240 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

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

Manohar Lal
RE Nespak,Hafizabad.(Dualization of Rd From Guj to M-2 Interchange at Kot Sarwar Via Hafizabad)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: SA-466F/103/GH/ML/Lab/78

SOM Lab

Ref: 2760 (Page-1/1)

Dated: 17-07-2023

Dated: 29-08-2023

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 | 1.461 | 6 | 0.739 | 0.44 | 0.429 | 14.14 | 18.83 | 70870 | 72690 | 94370 | 96790 | 1.30 | 8.0 | 16.3 | |
| 2 | 1.480 | 6 | 0.744 | 0.44 | 0.435 | 14.19 | 18.96 | 71130 | 71940 | 95040 | 96130 | 1.30 | 8.0 | 16.3 | |
| 3 | 1.023 | 5 | 0.619 | 0.31 | 0.301 | 10.27 | 13.68 | 73030 | 75220 | 97330 | 100240 | 1.30 | 8.0 | 16.3 | |
| 4 | 1.028 | 5 | 0.620 | 0.31 | 0.302 | 10.32 | 13.63 | 73390 | 75340 | 96960 | 99530 | 1.40 | 8.0 | 17.5 | |
| 5 | 0.665 | 4 | 0.498 | 0.20 | 0.195 | 6.75 | 8.53 | 74420 | 76320 | 94090 | 96500 | 1.10 | 8.0 | 13.8 | |
| 6 | 0.663 | 4 | 0.498 | 0.20 | 0.195 | 6.65 | 8.56 | 73290 | 75170 | 94420 | 96850 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|--|--|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Nine Samples Received and Tested |
| # 5 | 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

Zafar Iqbal

Test Performed By: Dr./Engr. Wasim Abbas

PM United LifeStyle Pvt. Ltd.(Sky Scrapers By United at Johar Town Lahore)

Client Reference: ULS/2021-22-23/043

SOM Lab

Ref: 2761 (Page-1/1)

Dated: 29-08-2023

Dated: 29-08-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
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 | 0.658 | 4 | 0.496 | 0.20 | 0.193 | 6.65 | 8.41 | 73290 | 75950 | 92740 | 96100 | 1.10 | 8.0 | 13.8 | |
| 2 | 0.671 | 4 | 0.501 | 0.20 | 0.197 | 6.60 | 8.53 | 72730 | 73840 | 94090 | 95520 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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

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

Premier Developer & Builders

Test Performed By: Dr./Engr. Wasim Abbas

Procurement Manager .(Lyallpur Galleria-II Near Four Season Colony Samundri Road,FSD)

Client Reference: LG-II/046

SOM Lab

Ref: 2762 (Page-1/1)

Dated: 28-08-2023

Dated: 29-08-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Fazal 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 | 2.645 | 8 | 0.995 | 0.79 | 0.777 | 26.10 | 35.14 | 72850 | 74070 | 98100 | 99740 | 1.50 | 8.00 | 18.8 | |
| 2 | 1.482 | 6 | 0.745 | 0.44 | 0.436 | 15.36 | 19.13 | 77000 | 77710 | 95910 | 96790 | 1.30 | 8.00 | 16.3 | |
| 3 | 0.648 | 4 | 0.492 | 0.20 | 0.190 | 7.19 | 8.82 | 79250 | 83420 | 97230 | 102350 | 1.00 | 8.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | |
|-----|--|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |

Note:-**Only Six Samples
Received and Tested**Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sheikhoo Steel

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

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

SOM Lab

Client Reference: Nil

Ref: 2772 (Page-1a/1)

Dated: 29-08-2023

Dated: 29-08-2023

Test: Tension Test Test

Test Specification: ASTM-A-615

Gauge Length: 8 h inc

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 | 2.654 | 8 | 0.997 | 0.79 | 0.780 | 24.52 | 32.98 | 68440 | 69320 | 92060 | 93240 | 1.40 | 8.00 | 17.5 | S-053 |
| 2 | 2.642 | 8 | 0.994 | 0.79 | 0.776 | 24.87 | 33.40 | 69440 | 70690 | 93260 | 94940 | 1.60 | 8.00 | 20.0 | S-054 |
| 3 | 2.634 | 8 | 0.993 | 0.79 | 0.774 | 25.25 | 33.51 | 70490 | 71950 | 93540 | 95480 | 1.40 | 8.00 | 17.5 | S-055 |
| 4 | 2.622 | 8 | 0.991 | 0.79 | 0.771 | 25.66 | 33.33 | 71630 | 73400 | 93060 | 95350 | 1.50 | 8.00 | 18.8 | S-056 |
| 5 | 2.624 | 8 | 0.991 | 0.79 | 0.771 | 24.97 | 33.33 | 69720 | 71440 | 93060 | 95350 | 1.60 | 8.00 | 20.0 | S-057 |
| 6 | 2.621 | 8 | 0.990 | 0.79 | 0.770 | 24.74 | 33.18 | 69070 | 70860 | 92630 | 95040 | 1.50 | 8.00 | 18.8 | S-058 |
| 7 | 2.624 | 8 | 0.991 | 0.79 | 0.771 | 24.99 | 33.49 | 69780 | 71500 | 93490 | 95790 | 1.50 | 8.00 | 18.8 | S-059 |
| 8 | 2.631 | 8 | 0.992 | 0.79 | 0.773 | 24.94 | 33.20 | 69640 | 71170 | 92690 | 94730 | 1.60 | 8.00 | 20.0 | S-060 |
| 9 | 2.633 | 8 | 0.993 | 0.79 | 0.774 | 24.89 | 33.15 | 69500 | 70930 | 92550 | 94460 | 1.40 | 8.00 | 17.5 | S-061 |
| 10 | 2.642 | 8 | 0.994 | 0.79 | 0.776 | 25.61 | 33.69 | 71490 | 72780 | 94050 | 95750 | 1.30 | 8.00 | 16.3 | S-062 |

BEND TEST:

| | | |
|----|------------------------|--|
| -- | No Bend test performed | Note:- Only Ten Samples Received and Tested |
| | | |
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| | |
| Note: Please always confirm the results of above report on web www.uet-civil.edu.pk | |

Sheikhoo Steel Test Performed By: Dr./Engr. Asad Ali Gillani
 Director Projects, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

Dated: 29-08-2023

Test: Tension Test Test

Gauge Length: 8 h inc

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Sheikhoo Steel)

SOM Lab

Ref: 2772 (Page-1b/1)

Dated: 29-08-2023

| 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 | 25.64 | 33.40 | 71570 | 72680 | 93260 | 94700 | 1.40 | 8.0 | 17.5 | S-063 |
| 2 | 2.632 | 8 | 0.992 | 0.79 | 0.773 | 24.84 | 33.10 | 69350 | 70880 | 92400 | 94440 | 1.30 | 8.0 | 16.3 | S-064 |
| 3 | 2.652 | 8 | 0.996 | 0.79 | 0.779 | 25.05 | 33.33 | 69920 | 70910 | 93060 | 94370 | 1.60 | 8.0 | 20.0 | S-065 |
| 4 | 2.650 | 8 | 0.996 | 0.79 | 0.779 | 24.64 | 33.64 | 68790 | 69760 | 93910 | 95240 | 1.50 | 8.0 | 18.8 | S-066 |
| 5 | 2.659 | 8 | 0.997 | 0.79 | 0.781 | 24.03 | 33.20 | 67080 | 67850 | 92690 | 93760 | 1.40 | 8.0 | 17.5 | S-067 |
| 6 | 2.657 | 8 | 0.997 | 0.79 | 0.781 | 24.33 | 33.23 | 67930 | 68710 | 92770 | 93840 | 1.60 | 8.0 | 20.0 | S-068 |
| 7 | 2.641 | 8 | 0.994 | 0.79 | 0.776 | 26.91 | 34.37 | 75130 | 76490 | 95960 | 97690 | 1.20 | 8.0 | 15.0 | S-069 |
| 8 | 2.655 | 8 | 0.997 | 0.79 | 0.780 | 25.61 | 34.37 | 71490 | 72410 | 95960 | 97190 | 1.60 | 8.0 | 20.0 | S-070 |
| 9 | 2.649 | 8 | 0.995 | 0.79 | 0.778 | 25.76 | 34.35 | 71920 | 73020 | 95900 | 97380 | 1.30 | 8.0 | 16.3 | S-071 |
| 10 | 2.648 | 8 | 0.995 | 0.79 | 0.778 | 25.69 | 34.37 | 71720 | 72820 | 95960 | 97440 | 1.30 | 8.0 | 16.3 | S-072 |

BEND TEST:

| | | |
|----|------------------------|--|
| -- | No Bend test performed | Note:- Only Ten 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: .Dr Nauman Khurram

**Malik Ali Haider
Aziz Steel Industries.
Muridke.**

**Client Reference No.: Nil
SOM Lab Ref: CED/SOM/2759 (Page 1/1)**

**Dated: 29-08-2023
Dated: 29-08-2023**

**Sample Type: Deformed Bar
Test Type: Hardness Test**

Hardness Test Details:

**Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: B)**

Hardness Test Results

| Sample No. | Sample Type | Hardness (avg) |
|-------------------|--------------------------|-----------------------|
| 1 | Deformed Bar (#8) | HR – 79.66- B |

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

