

Khalid Bashir

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Ittfaq Building Solution (Pvt.)Ltd.(Kohinoor Textile Mill Raiwind,LHR.(Weaving Unit Extension))

Client Reference: IBS/KTML/ST 03

Dated: 14-03-2022

SOM Lab Ref: CED/SOM/6063(Page-1/1)

Dated: 15-03-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

| 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 | mm | % | |
| 1 | 0.890 | 12 | 12.00 | 113 | 113 | 54.70 | 79.50 | 484 | 485 | 703 | 704 | 22.5 | 200 | 11.3 | |
| 2 | 0.889 | 12 | 12.01 | 113 | 113 | 53.70 | 79.50 | 475 | 475 | 703 | 703 | 25.0 | 200 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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|------|--|---|
| 12mm | 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

Engr. Mustafa Ali

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Sr. MC Dream Builders.(Const.Of Apartments Building At 32-P Model Town Ext,Lahore)

Client Reference: DB/CONST-32P/22/315

SOM Lab

Ref: 6058 (Page-1/1)

Dated: 15-03-2022

Dated: 15-03-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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 | 1.498 | 6 | 0.748 | 0.44 | 0.440 | 15.16 | 19.16 | 75980 | 75980 | 96060 | 96060 | 1.30 | 8.0 | 16.3 | |
| 2 | 1.501 | 6 | 0.749 | 0.44 | 0.441 | 15.41 | 19.18 | 77260 | 77080 | 96160 | 95940 | 1.30 | 8.0 | 16.3 | |
| 3 | 0.659 | 4 | 0.497 | 0.20 | 0.194 | 6.63 | 8.28 | 73070 | 75330 | 91280 | 94100 | 1.20 | 8.0 | 15.0 | |
| 4 | 0.661 | 4 | 0.497 | 0.20 | 0.194 | 6.65 | 8.36 | 73290 | 75560 | 92180 | 95030 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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

Maj Adnan Khalid (R)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL DHA Lahore,(Infra Structure Dev Works Of Sec-4 Block-Q DHA Ph-XI (M/s DHA-C))

Client Reference: 408/241/32/Lab/70/155

SOM Lab

Ref: 6061 (Page-1/1)

Dated: 15-03-2022

Dated: 15-03-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Moiz 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 | 1.470 | 6 | 0.742 | 0.44 | 0.432 | 13.86 | 19.69 | 69490 | 70780 | 98720 | 100540 | 1.20 | 8.0 | 15.0 | |
| 2 | 1.470 | 6 | 0.742 | 0.44 | 0.432 | 13.73 | 19.52 | 68830 | 70100 | 97850 | 99660 | 1.30 | 8.0 | 16.3 | |
| 3 | 0.600 | 4 | 0.473 | 0.20 | 0.176 | 5.81 | 7.87 | 64080 | 72810 | 86780 | 98610 | 1.10 | 8.0 | 13.8 | |
| 4 | 0.596 | 4 | 0.472 | 0.20 | 0.175 | 5.71 | 7.82 | 62950 | 71940 | 86220 | 98540 | 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

Hamid Masood
Sanda M.B.Din

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

Dated: 15-03-2022

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 6062 (Page-1/1)

Dated: 15-03-2022

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 | 1.535 | 6 | 0.758 | 0.44 | 0.451 | 17.04 | 21.20 | 85430 | 83350 | 106280 | 103690 | 1.10 | 8.0 | 13.8 | |
| 2 | 1.489 | 6 | 0.747 | 0.44 | 0.438 | 14.34 | 18.37 | 71890 | 72220 | 92070 | 92490 | 1.20 | 8.0 | 15.0 | |
| 3 | 0.660 | 4 | 0.497 | 0.20 | 0.194 | 7.29 | 9.09 | 80370 | 82860 | 100270 | 103370 | 0.80 | 8.0 | 10.0 | |
| 4 | 0.657 | 4 | 0.496 | 0.20 | 0.193 | 7.44 | 9.28 | 82060 | 85040 | 102290 | 106000 | 0.80 | 8.0 | 10.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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

M.Nadeem Zafar Ullah

Test Performed By: Dr. /Engr. Irfan UI Hasan

Incharge (Civil),SNGPL.(Supply,Instal. Commissioning And Maintence Of Weigh Bridge At Uch Shrif)

Client Reference: CC/W.Bridge/Uch Shrif

SOM Lab

Ref: 6064 (Page-1/1)

Dated: 15-03-2022

Dated: 15-03-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 | 2.596 | 8 | 0.986 | 0.79 | 0.763 | 23.92 | 32.01 | 66790 | 69160 | 89360 | 92520 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.586 | 8 | 0.984 | 0.79 | 0.760 | 24.11 | 31.65 | 67310 | 69960 | 88360 | 91850 | 1.50 | 8.0 | 18.8 | |
| 3 | 1.456 | 6 | 0.738 | 0.44 | 0.428 | 14.65 | 18.06 | 73430 | 75480 | 90540 | 93080 | 1.00 | 8.0 | 12.5 | |
| 4 | 1.457 | 6 | 0.738 | 0.44 | 0.428 | 14.39 | 18.20 | 72150 | 74170 | 91210 | 93760 | 1.10 | 8.0 | 13.8 | |
| 5 | 0.637 | 4 | 0.488 | 0.20 | 0.187 | 5.93 | 7.36 | 65420 | 69970 | 81160 | 86800 | 1.20 | 8.0 | 15.0 | |
| 6 | 0.645 | 4 | 0.492 | 0.20 | 0.190 | 6.29 | 8.07 | 69360 | 73010 | 89030 | 93710 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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|-----|--|--|
| # 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

Test Performed by: Dr. Asad Ali Gillani

Engr. Zaheer Ud Din Babar,
Dy.General Manager Projects,
Habib Rafiq Engineering (Pvt.)Ltd,Lahore
(Construction Of Sky Gardens Tower,Lahore.)

Client Reference No.: HRLE/SKG/2022/013

Dated: 15-03-2022

SOM Lab Ref: CED/SOM/6060

Dated: 15-03-2022

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler

Tension Test Results

| Sr. No. | Bar Size | Area | Yield Load | Ultimate Load | Yield stress | Ultimate stress | Remarks |
|---------|----------|--------------------|------------|---------------|--------------|-----------------|---------------------|
| | (mm) | (mm ²) | kN | kN | (psi) | (psi) | |
| 1 | 25 | 491 | 194.50 | 254.70 | 57420 | 75255 | Thread Failure |
| 2 | 22 | 380 | 173.00 | 231.00 | 65975 | 88160 | Steel Sample Breaks |
| 3 | 16 | 201 | 99.20 | 120.70 | 71485 | 87000 | Steel Sample Breaks |

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