

StarchPack (Pvt.) Ltd.
Lead Civil Lahore.(StarchPack Green Project At Kasur)

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

Client Reference: Nil
SOM Lab Ref: CED/SOM/777,780(Page-1/2)

Dated: 22-08-2022

Dated: 23-08-2022

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 | 2.515 | 20 | 20.19 | 314 | 320 | 167.20 | 204.00 | 532 | 523 | 649 | 638 | 30.0 | 200 | 15.0 | |
| 2 | 2.502 | 20 | 20.14 | 314 | 319 | 170.70 | 209.00 | 543 | 536 | 665 | 656 | 37.5 | 200 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|------|--|---|
| 20mm | 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

StarchPack (Pvt.) Ltd.
Lead Civil Lahore.(StarchPack Green Project At Kasur)

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

Client Reference: Nil
SOM Lab Ref: CED/SOM/777,780(Page-2/2)

Dated: 22-08-2022

Dated: 23-08-2022

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 | 1.087 | 16 | 13.26 | 201 | 138 | 93.00 | 124.70 | 463 | 674 | 620 | 904 | 35.0 | 200 | 17.5 | |
| 2 | 1.583 | 16 | 16.03 | 201 | 202 | 96.70 | 128.00 | 481 | 480 | 637 | 635 | 32.5 | 200 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|------|--|---|
| 16mm | 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

Amein Uddin

Test Performed By:

Dr. /Engr.

Nauman Khurram

PM Project Majeed Associates Ltd.(Const.of ABL Warehouse Pakpattan Rd Sahiwal)

Client Reference: Nil**Dated:** 23-08-2022**SOM Lab Ref:** CED/SOM/791(Page-1/1)**Dated:** 23-08-2022**Test:** Tension Test & Bend Test**Test Specification:** ASTM-A 615**Sample Type:** Deformed Bar (AFCO Steel)**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 | 3.808 | 25 | 24.85 | 491 | 485 | 281.50 | 359.20 | 573 | 581 | 732 | 741 | 30.0 | 200 | 15.0 | |
| 2 | 3.807 | 25 | 24.85 | 491 | 485 | 287.70 | 365.70 | 586 | 594 | 745 | 755 | 30.0 | 200 | 15.0 | |
| 3 | 2.379 | 20 | 19.64 | 314 | 303 | 169.50 | 207.50 | 540 | 560 | 660 | 685 | 25.0 | 200 | 12.5 | |
| 4 | 2.385 | 20 | 19.67 | 314 | 304 | 168.00 | 205.50 | 535 | 553 | 654 | 677 | 25.0 | 200 | 12.5 | |
| 5 | 0.888 | 12 | 12.00 | 113 | 113 | 72.50 | 84.20 | 641 | 641 | 744 | 745 | 22.5 | 200 | 11.3 | |
| 6 | 0.880 | 12 | 11.95 | 113 | 112 | 71.00 | 83.70 | 628 | 634 | 740 | 747 | 22.5 | 200 | 11.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|------|--|--|
| 25mm | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Nine Samples Received and Tested |
| 20mm | Sample bend through 180 degrees Satisfactorily without any crack | |
| 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

Muhammad Nasim AE B&R

Test Performed By: Dr. /Engr. Bilal Khokhar

GE(Army)-II LRC.(Const Of 8xSldrs Flats,11 Div/HQ Log 4 Corps,Const Of Hard standing,At Lhr)

Client Reference: 6003/150/E-6

SOM Lab

Ref: 781 (Page-1/2)

Dated: 15-04-2022

Dated: 28-08-2022

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 | 1.486 | 6 | 0.746 | 0.44 | 0.437 | 10.62 | 16.08 | 53240 | 53610 | 80580 | 81130 | 2.00 | 8.0 | 25.0 | |
| 2 | 0.669 | 4 | 0.501 | 0.20 | 0.197 | 5.25 | 7.77 | 57890 | 58770 | 85660 | 86960 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

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

Muhammad Nasim AE B&R

Test Performed By: Dr. /Engr. Bilal Khokhar

GE(Army)-II LRC.(Const Of 8xSldrs Flats,11 Div/HQ Log 4 Corps,Const Of Hard standing,At Lhr)

Client Reference: 6003/150/E-6

SOM Lab

Ref: 781 (Page-2/2)

Dated: 15-04-2022

Dated: 28-08-2022

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 | 1.469 | 6 | 0.742 | 0.44 | 0.432 | 13.07 | 20.87 | 65510 | 66720 | 104590 | 106530 | 1.40 | 8.0 | 17.5 | |
| 2 | 0.633 | 4 | 0.487 | 0.20 | 0.186 | 7.67 | 9.63 | 84530 | 90900 | 106230 | 114220 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

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

Sadaqat Ali, RE

Test Performed By:

Dr. /Engr.

Bilal Khokhar

ACES.(Const Of Kitchen Building-Rumanza Golf Course DHA Multan)

Client Reference: ACES-DHAM-RGC-EC-03

SOM Lab

Ref:

782 (Page-1/1)

Dated: 01-08-2022

Dated:

23-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 7.61 | 9.14 | 83970 | 85250 | 100830 | 102370 | 1.00 | 8.0 | 12.5 | |
| 2 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 7.24 | 8.87 | 79810 | 81030 | 97800 | 99290 | 0.90 | 8.0 | 11.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

Naeem Akhtar

Test Performed By: Dr. /Engr. Bilal Khokhar

Dir, Usman Ibrahim Construction. Lahore (Const Of Tower A luxury Apartment DHA Ph-8)

Client Reference: UD/Adc/112

SOM Lab

Ref: 783 (Page-1/1)

Dated: 08-03-2022

Dated: 23-08-2022

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 | 1.413 | 6 | 0.727 | 0.44 | 0.415 | 14.09 | 17.84 | 70620 | 74870 | 89420 | 94800 | 1.00 | 8.0 | 12.5 | |
| 2 | 1.459 | 6 | 0.739 | 0.44 | 0.429 | 16.00 | 19.62 | 80220 | 82280 | 98360 | 100880 | 1.20 | 8.0 | 15.0 | |
| 3 | 0.671 | 4 | 0.501 | 0.20 | 0.197 | 6.68 | 8.99 | 73630 | 74750 | 99150 | 100660 | 1.00 | 8.0 | 12.5 | |
| 4 | 0.662 | 4 | 0.498 | 0.20 | 0.195 | 6.54 | 8.74 | 72170 | 74020 | 96340 | 98810 | 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 | |
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Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

PRIME STEEL Re-Rolling Mill
Sheikhupura.

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

Client Reference: Nil

SOM Lab

Ref: 784 (Page-1/1)

Dated: 23-08-2022

Dated: 23-08-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Prime 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 | 0.562 | 4 | 0.458 | 0.20 | 0.165 | 5.83 | 7.72 | 64300 | 77940 | 85100 | 103140 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|--|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Two 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.Zahid Nisar Hashmi

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Head MP.Shaukat Khanum Memorial Trust.(Const.Of Multi-Storied Parking Garage SKMCH&RC,Lhr)

Client Reference: SKM/PG/UET/08/13

SOM Lab

Ref: 785 (Page-1/1)

Dated: 23-08-2022

Dated: 23-08-2022

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 | 2.636 | 8 | 0.993 | 0.79 | 0.775 | 24.06 | 33.61 | 67160 | 68460 | 93830 | 95640 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.616 | 8 | 0.990 | 0.79 | 0.769 | 25.08 | 34.76 | 70010 | 71920 | 97040 | 99690 | 1.50 | 8.0 | 18.8 | |
| 3 | 1.514 | 6 | 0.753 | 0.44 | 0.445 | 13.04 | 19.95 | 65350 | 64620 | 99990 | 98870 | 1.50 | 8.0 | 18.8 | |
| 4 | 1.513 | 6 | 0.753 | 0.44 | 0.445 | 12.70 | 19.90 | 63670 | 62950 | 99740 | 98620 | 1.40 | 8.0 | 17.5 | |
| 5 | 0.654 | 4 | 0.494 | 0.20 | 0.192 | 6.52 | 8.51 | 71940 | 74940 | 93860 | 97770 | 1.10 | 8.0 | 13.8 | |
| 6 | 0.634 | 4 | 0.487 | 0.20 | 0.186 | 6.22 | 8.36 | 68570 | 73730 | 92180 | 99110 | 1.20 | 8.0 | 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 | |
| # 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

Asif Shahzad

Test Performed By: Dr. /Engr. Nauman Khurram

Astt Project Engr. Building Section DHA Gujranwala.(Const Of Villas (Block-A&D)

Client Reference: 111/3/APE Bldgs/GEN/15

SOM Lab

Ref: 786 (Page-2/2)

Dated: 19-Apr-2022

Dated: 23-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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 | 1.500 | 6 | 0.749 | 0.44 | 0.441 | 13.93 | 19.24 | 69850 | 69690 | 96420 | 96200 | 1.10 | 8.0 | 13.8 | |
| 2 | 1.498 | 6 | 0.748 | 0.44 | 0.440 | 13.61 | 18.86 | 68210 | 68210 | 94530 | 94530 | 1.10 | 8.0 | 13.8 | |
| 3 | 0.644 | 4 | 0.491 | 0.20 | 0.189 | 6.27 | 8.87 | 69130 | 73160 | 97800 | 103490 | 1.10 | 8.0 | 13.8 | |
| 4 | 0.653 | 4 | 0.494 | 0.20 | 0.192 | 7.39 | 8.99 | 81500 | 84890 | 99150 | 103280 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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

Asif Shahzad

Test Performed By:

Dr. /Engr.

Nauman Khurram

Astt Project Engr. Building Section DHA Gujranwala.(Const Of Villas (Block-A&D)

Client Reference: 111/3/APE Bldgs/GEN/18

SOM Lab

Ref:

786 (Page-1/2)

Dated: 08-June-2022

Dated:

23-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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 | 1.445 | 6 | 0.736 | 0.44 | 0.425 | 14.65 | 19.24 | 73430 | 76020 | 96420 | 99820 | 1.00 | 8.0 | 12.5 | |
| 2 | 0.682 | 4 | 0.505 | 0.20 | 0.200 | 8.63 | 9.99 | 95210 | 95210 | 110160 | 110160 | 0.80 | 8.0 | 10.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|-----|--|--|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Four 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

Zaheer Abbas

Test Performed By: Dr. /Engr. Bilal Khokhar

MC Educational Services, Beaconhouse School System. (Const Work At Fsd Main Campus)

Client Reference: Nil

SOM Lab

Ref: 787 (Page-1/1)

Dated: 22-08-2022

Dated: 23-08-2022

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 | 2.632 | 8 | 0.992 | 0.79 | 0.773 | 24.28 | 33.35 | 67790 | 69280 | 93120 | 95160 | 1.60 | 8.0 | 20.0 | |
| 2 | 2.645 | 8 | 0.995 | 0.79 | 0.777 | 24.08 | 33.05 | 67220 | 68340 | 92260 | 93810 | 1.50 | 8.0 | 18.8 | |
| 3 | 1.507 | 6 | 0.751 | 0.44 | 0.443 | 13.22 | 18.60 | 66270 | 65820 | 93250 | 92620 | 1.60 | 8.0 | 20.0 | |
| 4 | 1.516 | 6 | 0.754 | 0.44 | 0.446 | 13.30 | 18.83 | 66680 | 65780 | 94370 | 93100 | 1.50 | 8.0 | 18.8 | |
| 5 | 0.674 | 4 | 0.502 | 0.20 | 0.198 | 5.98 | 8.61 | 65990 | 66650 | 94990 | 95950 | 1.50 | 8.0 | 18.8 | |
| 6 | 0.672 | 4 | 0.501 | 0.20 | 0.197 | 6.14 | 8.46 | 67670 | 68700 | 93300 | 94720 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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

Muddasir Ali
Lahore

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: Nil

SOM Lab

Ref: 788 (Page-1/1)

Dated: 23-08-2022

Dated: 23-08-2022

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 | 2.092 | 7 | 0.885 | 0.60 | 0.615 | 21.37 | 26.47 | 78540 | 76620 | 97310 | 94940 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|--|---|
| # 7 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Two Samples Received and Tested |
| | | |
| | | |
| | | |

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

Engr. Muhammad Imran

Test Performed By:

Dr. /Engr.

Bilal Khokhar

PM TPM Consulting,Lahore.(Const. Of Flag With Pole, Deck,Walkways And Mural Walls)

Client Reference: TPM/PHA/HRD/JP/04

SOM Lab

Ref:

789 (Page-1/1)

Dated: 04-08-2022

Dated:

23-08-2022

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 | 2.601 | 8 | 0.986 | 0.79 | 0.764 | 25.65 | 33.59 | 71600 | 74040 | 93770 | 96960 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.670 | 8 | 1.000 | 0.79 | 0.785 | 26.30 | 34.15 | 73420 | 73890 | 95340 | 95940 | 1.40 | 8.0 | 17.5 | |
| 3 | 0.667 | 4 | 0.500 | 0.20 | 0.196 | 4.30 | 6.78 | 47440 | 48410 | 74750 | 76280 | 1.30 | 8.0 | 16.3 | |
| 4 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 5.27 | 7.75 | 58120 | 59000 | 85430 | 86730 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

8 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

Bashir Industry
 Proprietor Bashir Industry Daroghawala, Lahore.

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: Nil

SOM Lab

Ref: 790 (Page-1/1)

Dated: 23-08-2022

Dated: 23-08-2022

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 | 1.509 | 6 | 0.751 | 0.44 | 0.443 | 11.77 | 17.25 | 59020 | 58620 | 86450 | 85870 | 1.00 | 8.0 | 12.5 | |
| 2 | 1.501 | 6 | 0.749 | 0.44 | 0.441 | 11.90 | 17.69 | 59630 | 59500 | 88650 | 88450 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

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

Asif Pervaiz Butt
RE Ritz Developers Pvt. Ltd.

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: Nil

SOM Lab

Ref: 792 (Page-1/1)

Dated: 23-08-2022

Dated: 23-08-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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 | 1.513 | 6 | 0.753 | 0.44 | 0.445 | 15.62 | 19.42 | 78280 | 77400 | 97340 | 96240 | 1.00 | 8.0 | 12.5 | |
| 2 | 1.504 | 6 | 0.750 | 0.44 | 0.442 | 14.37 | 18.73 | 72050 | 71720 | 93860 | 93440 | 1.20 | 8.0 | 15.0 | |
| 3 | 1.497 | 6 | 0.748 | 0.44 | 0.440 | 16.02 | 19.47 | 80320 | 80320 | 97590 | 97590 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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

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