

Engr M. Naveed Sadiq
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

SOM Lab

Ref: 2713(Page-1/1)

Dated: 13-07-2020

Dated: 13-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

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 | 2.653 | 8 | 0.997 | 0.79 | 0.780 | 23.87 | 34.51 | 66650 | 67510 | 96330 | 97570 | 1.20 | 8.0 | 15.0 | |
| 2 | 2.648 | 8 | 0.995 | 0.79 | 0.778 | 23.72 | 35.27 | 66220 | 67250 | 98470 | 99980 | 1.20 | 8.0 | 15.0 | |
| 3 | 1.469 | 6 | 0.742 | 0.44 | 0.432 | 13.46 | 20.05 | 67450 | 68700 | 100500 | 102370 | 1.00 | 8.0 | 12.5 | |
| 4 | 1.534 | 6 | 0.758 | 0.44 | 0.451 | 14.19 | 20.03 | 71130 | 69390 | 100400 | 97950 | 1.20 | 8.0 | 15.0 | |
| 5 | 0.648 | 4 | 0.492 | 0.20 | 0.190 | 5.37 | 8.21 | 59240 | 62360 | 90490 | 95250 | 1.50 | 8.0 | 18.8 | |
| 6 | 0.645 | 4 | 0.492 | 0.20 | 0.190 | 5.86 | 8.94 | 64640 | 68040 | 98580 | 103770 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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

M. Sohail Anjum

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Project Manager, MEK Multistory Offices, P-156, Gulberg-II, Lahore

Client Reference: P-156-121

SOM Lab

Ref: 2714(Page-1/1)

Dated: 10-07-2020

Dated: 13-07-2020

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 | 2.528 | 8 | 0.973 | 0.79 | 0.743 | 27.93 | 34.07 | 77980 | 82910 | 95110 | 101120 | 1.30 | 8.0 | 16.3 | |
| 2 | 2.571 | 8 | 0.981 | 0.79 | 0.756 | 27.93 | 34.20 | 77980 | 81480 | 95480 | 99770 | 1.20 | 8.0 | 15.0 | |
| 3 | 1.483 | 6 | 0.745 | 0.44 | 0.436 | 15.80 | 20.54 | 79200 | 79930 | 102960 | 103900 | 1.10 | 8.0 | 13.8 | |
| 4 | 1.461 | 6 | 0.739 | 0.44 | 0.429 | 15.90 | 20.71 | 79710 | 81750 | 103830 | 106490 | 1.20 | 8.0 | 15.0 | |
| 5 | 0.658 | 4 | 0.496 | 0.20 | 0.193 | 6.52 | 8.43 | 71940 | 74550 | 92960 | 96340 | 0.90 | 8.0 | 11.3 | |
| 6 | 0.678 | 4 | 0.503 | 0.20 | 0.199 | 6.93 | 8.92 | 76440 | 76820 | 98360 | 98850 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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

Tahir Mehmood
Chief Engineer (Infra) New Lahore City

Test Performed By: Dr. /Engr. S. Asad Ali Gallni

Client Reference: NLC/CE/Infra/027

SOM Lab 2715 (Page-
Ref: 1/1)

Dated: 10-07-2020

Dated: 13-07-2020

Test: Tension Test & Bend test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(AFCO 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 | 1.502 | 6 | 0.749 | 0.44 | 0.441 | 17.69 | 22.04 | 88650 | 88450 | 110470 | 110220 | 1.00 | 8.0 | 12.5 | |
| 2 | 1.491 | 6 | 0.747 | 0.44 | 0.438 | 17.43 | 21.81 | 87370 | 87770 | 109340 | 109840 | 1.00 | 8.0 | 12.5 | |
| 3 | 0.651 | 4 | 0.493 | 0.20 | 0.191 | 6.34 | 8.56 | 69920 | 73220 | 94420 | 98870 | 1.10 | 8.0 | 13.8 | |
| 4 | 0.647 | 4 | 0.492 | 0.20 | 0.190 | 6.44 | 8.66 | 71040 | 74780 | 95550 | 100580 | 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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

By Dir MTL, Infra Dev Works of Ph -IX Prism (Pkg-V) DHA Lahore - (M/S MAAKSONS)

Client Reference: 408/241/E/Lab/831/277

SOM Lab

Ref: 2716(Page-1/1)

Dated: 13-07-2020

Dated: 13-07-2020

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 | 2.633 | 8 | 0.993 | 0.79 | 0.774 | 24.69 | 33.56 | 68930 | 70350 | 93680 | 95620 | 1.20 | 8.0 | 15.0 | |
| 2 | 2.622 | 8 | 0.991 | 0.79 | 0.771 | 24.74 | 33.69 | 69070 | 70770 | 94050 | 96370 | 1.30 | 8.0 | 16.3 | |
| 3 | 1.485 | 6 | 0.745 | 0.44 | 0.436 | 13.46 | 19.69 | 67450 | 68070 | 98720 | 99620 | 1.10 | 8.0 | 13.8 | |
| 4 | 1.478 | 6 | 0.743 | 0.44 | 0.434 | 13.15 | 19.95 | 65910 | 66830 | 99990 | 101380 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

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 | |
| | | |
| | | |

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

SOM Lab

Client Reference: 408/241/E/Lab/942/5474

Ref: 2719(Page-1/1)

Dated: 10-07-2020

Dated: 13-07-2020

Test: Tension Test & Bend Test Test Specification:

ASTM-A-615

Deformed Bar (Kamran Steel)

Gauge Length: 8 inch

Sample Type:

| 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 | 1.477 | 6 | 0.743 | 0.44 | 0.434 | 14.34 | 18.71 | 71890 | 72890 | 93760 | 95060 | 1.30 | 8.0 | 16.3 | |
| 2 | 1.466 | 6 | 0.741 | 0.44 | 0.431 | 13.58 | 18.30 | 68060 | 69480 | 91720 | 93630 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

Garrison Engineer (Army) -II
Walton Cantt. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

SOM Lab

Ref: 2720(Page-1/1)

Dated: 09-07-2020

Dated: 13-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

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 | 1.055 | 5 | 0.628 | 0.31 | 0.310 | 9.17 | 13.73 | 65270 | 65270 | 97690 | 97690 | 1.20 | 8.0 | 15.0 | |
| 2 | 0.657 | 4 | 0.496 | 0.20 | 0.193 | 6.34 | 9.50 | 69920 | 72460 | 104770 | 108570 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|-----|--|---|
| # 5 | 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

Test Performed By: S. Asad Ali Gillani

Rashid Kamran
Resident Engineer
NESPAK (Pvt) Ltd. Lahore

Client Reference: 4047-R/13/SNH/07/336,
SOM Laboratory Reference: CED/SOM/2718(Page-1/1)

Dated: 12-05-2020

Dated: 13-07-2020

Test: Compressive Strength
Sample Type: Aluminum Studs,
Test Specification: ASTM-D4280

Test Results

| Sr. No. | Sample Type | Top Dimensions (mm) | Bottom Dimensions (mm) | Thickness (mm) | Inclination (Degree) | Compression Load (Kg) |
|---------|---------------|---------------------|------------------------|----------------|----------------------|-----------------------|
| 1 | Aluminum Stud | 125.0 x 60.0 | 147.5 x 98.5 | 37.0 | 56.41 ° | 12253.00 |
| 2 | Aluminum Stud | 125.0 x 60.0 | 147.5 x 98.5 | 37.0 | 56.41° | 11621.0 |

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

