

Altaf Hussain

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

M.E. A.S. Enterprises, Engineers (PROJECT: STYLE TEXTILE RAIWAND ROAD)

Client Reference: USD/ASE/18

Dated: 23-01-2020

SOM Lab Ref: CED/SOM/2101(Page-1/1)

Dated: 23-01-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(AFCE 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 | 0.884 | 12 | 12.00 | 113 | 113 | 60.50 | 74.50 | 535 | 536 | 659 | 660 | 30.0 | 200 | 15.0 | |
| 2 | 0.880 | 12 | 11.95 | 113 | 112 | 60.20 | 74.20 | 532 | 537 | 656 | 662 | 32.5 | 200 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

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

Test Performed by: Dr. Syed Asad Ali Gillani

Engr. Maqsood Ahmed Janjua
Manager,
United Wire Products, Company,
Lahore

Client Reference No.: ADMIN/UWP/HD/TN-001/201220

Dated: 22-01-2020

SOM Lab Ref: CED/SOM/2100 (Page-1/1)

Dated: 23-01-2020

Test Type: Tensile Test

Sample Type: Wire SWG-16 (1.6mm Diameter)

Tensile Test Results

| Sample No. | Sample Type | Tested Diameter of Bolt (mm) | Ultimate Load (kN) | Ultimate Tensile Stress (ksi) |
|------------|-------------|------------------------------|--------------------|-------------------------------|
| 1 | Wire SWG-16 | 1.6 | 0.930 | 67.144 |

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