

Afzaal Aslam
Avp Sales, Al Moiz Industries Limited, Lahore

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

Client Reference: nil

SOM Lab

Ref: 3162(Page-1/1)

Dated: 21-10-2020

Dated: 26-10-2020

Test: Tension 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	1.515	6	0.753	0.44	0.445	13.83	19.72	69340	68560	98870	97760	1.40	8.0	17.5	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

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

Test Performed By: Dr. /Engr. M. Rizwan Azam

Client Reference: Nil

SOM Lab

Ref: 3166(Page-1/1)

Dated: 26-10-2020

Dated: 26-10-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	0.664	4	0.498	0.20	0.195	6.12	8.28	67450	69180	91280	93620	1.00	8.0	12.5	
2	0.644	4	0.491	0.20	0.189	6.44	8.84	71040	75180	97460	103130	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Muhammad Asif Bajwa
Resident Engineer, PU Lahore Progressive Consultants (Pvt) Ltd.)

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: PCL-562/LHR/IEEE/PU/121

SOM Lab

Ref: 3167(Page-1/1)

Dated: 26-10-2020

Dated: 26-10-2020

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	2.614	8	0.989	0.79	0.768	27.93	33.40	77980	80210	93260	95930	1.20	8.0	15.0	
2	2.592	8	0.985	0.79	0.762	25.28	33.54	70580	73170	93630	97070	1.20	8.0	15.0	
3	1.499	6	0.749	0.44	0.441	15.70	22.91	78690	78510	114810	114550	0.90	8.0	11.3	
4	1.488	6	0.746	0.44	0.437	16.00	23.45	80220	80770	117520	118330	0.80	8.0	10.0	
5	0.658	4	0.496	0.20	0.193	4.99	7.65	55080	57080	84310	87370	1.40	8.0	17.5	
6	0.658	4	0.496	0.20	0.193	5.15	7.87	56770	58830	86780	89930	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Test Performed by: .S. Asad Ali Gellani

Sajjad Mughal
Mughal Trader, Lahore

Client Reference No.: Nil

Dated: 26-10-2020

SOM Lab Ref: CED/SOM/3165 (Page 1/2)

Dated: 26-10-2020

Test Type: Tensile Test

Sample Type: Stud - Bolt (24 x120mm, 16 x 90mm)

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Stud- Bolt (24mm)	16.0	153.0	760.00	35.0
2	Stud- Bolt (16mm)	10.0	61.2	779.0	30.0

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

Test Performed by: .S. Asad Ali Gellani

Sajjad Mughal
Mughal Trader, Lahore

Client Reference No.: Nil

Dated: 26-10-2020

SOM Lab Ref: CED/SOM/3165 (Page 2/2)

Dated: 26-10-2020

Test Type: Hardness Test

Sample Type: Stud - Bolt (24 x120mm, 16 x 90mm)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Bolt 24mm	HR – 97.17 – B
2	Bolt 16mm	HR – 82.17 – B

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