

Project Manager
Sajjad Enterprises, Faisalabad

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

Client Reference: nil

SOM Lab

Ref: 4328 (Page-1/1)

Dated: 20-05-2021

Dated: 20-05-2021

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	2.597	8	0.986	0.79	0.763	29.17	35.12	81450	84330	98040	101510	1.10	8.0	13.8	
2	2.582	8	0.983	0.79	0.759	29.07	35.22	81160	84480	98320	102340	1.10	8.0	13.8	
3	1.512	6	0.752	0.44	0.444	14.98	19.27	75110	74440	96570	95700	1.30	8.0	16.3	
4	1.504	6	0.750	0.44	0.442	14.65	18.83	73430	73090	94370	93950	1.40	8.0	17.5	
5	1.053	5	0.627	0.31	0.309	10.72	13.71	76300	76540	97540	97860	1.00	8.0	12.5	
6	1.056	5	0.628	0.31	0.310	11.03	13.88	78470	78470	98780	98780	1.00	8.0	12.5	
7	0.586	4	0.468	0.20	0.172	6.32	7.87	69700	81040	86780	100910	0.90	8.0	11.3	
8	0.586	4	0.468	0.20	0.172	6.12	7.72	67450	78430	85100	98950	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. M. Rehan Ashraf

Client Reference: ST/UET/ 20210520
Dated: 20-05-2021
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 4329(Page-1/1)
Dated: 20-05-2021
ASTM-A-615
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	13.87	20.15	69540	68760	101020	99880	1.30	8.0	16.3	
2	1.507	6	0.751	0.44	0.443	13.97	20.29	70000	69530	101680	100990	1.50	8.0	18.8	
3	1.516	6	0.754	0.44	0.446	13.73	20.25	68830	67900	101530	100160	1.50	8.0	18.8	
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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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: IHPL/Steel/074

Dated: 17-05-2021

SOM Lab

Ref: 4331(Page-1/1)

Dated: 20-05-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

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	0.643	4	0.491	0.20	0.189	5.32	8.18	58680	62100	90150	95400	1.20	8.0	15.0	
2	0.644	4	0.491	0.20	0.189	5.50	8.41	60700	64240	92740	98140	1.30	8.0	16.3	
3	0.645	4	0.492	0.20	0.190	5.45	8.43	60140	63310	92960	97860	1.40	8.0	17.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Sub Divisional Officer
Buildings Sub Division No. 6, Lahore

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

Client Reference: 131/Sd-6th

SOM Lab

Ref: 4332(Page-1/1)

Dated: 23-04-2021

Dated: 20-05-2021

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	0.656	4	0.496	0.20	0.193	5.71	8.53	62950	65230	94090	97500	1.00	8.0	12.5	
2	0.655	4	0.494	0.20	0.192	6.12	8.48	67450	70260	93530	97420	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Asif Javed
Resident Engr, New Vision Engineering Consultant,

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: NVC/GCWUS/T-04

Dated: 17-04-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 4333 (Page-1/1)

Dated: 20-05-2021

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	2.674	8	1.000	0.79	0.786	23.62	33.51	65940	66280	93540	94020	1.30	8.0	16.3	
2	2.679	8	1.001	0.79	0.787	24.46	34.07	68300	68560	95110	95470	1.40	8.0	17.5	
3	1.506	6	0.751	0.44	0.443	13.40	19.06	67190	66740	95550	94900	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	12.92	18.65	64740	64890	93510	93720	1.20	8.0	15.0	
5	1.058	5	0.629	0.31	0.311	10.01	13.46	71220	70990	95730	95420	1.30	8.0	16.3	
6	1.061	5	0.630	0.31	0.312	10.21	13.66	72670	72200	97180	96560	1.30	8.0	16.3	
7	0.673	4	0.502	0.20	0.198	6.44	8.84	71040	71760	97460	98440	1.00	8.0	12.5	
8	0.673	4	0.502	0.20	0.198	6.75	9.14	74420	75170	100830	101850	0.90	8.0	11.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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

Maj Adnan khalid®

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

Dy Dir MTL, Const of 1 Kanal, NGV 52, Units at DRGCC DHA Ph-VI, (M/S Linker Developers (Pvt) Ltd.)

Client Reference: 408/241/E/Lab/73/402

SOM Lab Ref: 4334(Page-1/1)

Dated: 21-05-2021

Dated: 20-05-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Mugal 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	2.678	8	1.001	0.79	0.787	24.72	35.14	69010	69280	98100	98470	1.00	8.0	12.5	
2	2.654	8	0.997	0.79	0.780	24.22	35.17	67620	68490	98180	99440	1.10	8.0	13.8	
3	1.527	6	0.756	0.44	0.449	13.93	19.11	69850	68450	95800	93880	1.20	8.0	15.0	
4	1.503	6	0.750	0.44	0.442	13.88	19.08	69590	69280	95650	95220	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	6.34	8.84	69920	70630	97460	98440	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	6.34	8.87	69920	71710	97800	100300	0.90	8.0	11.3	
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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: Dr. S. Asad Ali Gillani

Sub Divisional Officer

Highway Sub Division, ISA KHEL

Client Reference No.: 78

Dated: 12-02-2021

SOM Lab Ref: CED/SOM/4330(Page-1/1)

Dated: 20-05-2021

Test: Tensile Strength Test, Elongation at Break, Tear Test, Comp. Set Test &
Hardness Test

Sample Type: Bearing Pad

STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Elongation at Break(%)
1	6.0 x 3.0	0.3	16.667	480

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 3.0	0.25	83.33

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.95	1.667

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Sample Type	Hardness (Shore A)
1	Bearing Pad	59.83

