

Omar Sadiq
Project Manager One Liberty Mall and H&S Hotel Lahore.

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

Client Reference: OL/OS/2023/64

Dated: 19-07-2023

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification:
Sample Type:

SOM Lab

Ref: 2590 (Page-1/1)

Dated: 19-07-2023

ASTM-A-615

Deformed Bar (Aziz 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	2.579	8	0.982	0.79	0.758	21.76	34.98	60760	63330	97670	101790	1.30	8.0	16.3	
2	2.651	8	0.996	0.79	0.779	22.17	35.78	61900	62770	99890	101300	1.50	8.0	18.8	
3	0.666	4	0.500	0.20	0.196	5.02	7.90	55310	56440	87120	88900	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	5.07	7.80	55870	56720	85990	87300	1.10	8.0	13.8	
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BEND TEST:

# 8	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

Velosi Integrit & Safety Pak

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

RE Velosi Engg.(Provision Of Lodging Facility To 1000 Female/Student at Uni Of Agriculture)

Client Reference: VISP/UAF/ELC-27

Dated: 18-07-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2591 (Page-1/1)

Dated: 19-07-2023

ASTM-A-615

Deformed Bar (Sheikhoo 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	2.591	8	0.984	0.79	0.761	24.03	32.67	67080	69630	91210	94680	1.40	8.0	17.5	
2	2.591	8	0.984	0.79	0.761	24.03	32.72	67080	69630	91350	94830	1.50	8.0	18.8	
3	1.493	6	0.748	0.44	0.439	13.46	18.86	67450	67600	94530	94740	1.30	8.0	16.3	
4	1.491	6	0.747	0.44	0.438	13.32	18.91	66780	67090	94780	95220	1.60	8.0	20.0	
5	0.668	4	0.500	0.20	0.196	6.57	8.56	72510	73990	94420	96350	1.30	8.0	16.3	
6	0.672	4	0.501	0.20	0.197	6.63	8.63	73070	74180	95210	96660	1.20	8.0	15.0	
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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

Amir Shahzad, Sub Engineer

Sub Engr Chiniot Campus Dev. Consultancy Services.(Const Of GCU Faisalabad,Chiniot Campus)

Client Reference: Nil

Test Performed By:

Dr. /Engr. Asad Ali Gillani

SOM Lab

2592 (Page-1/1)

Dated: 14-06-2023

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification:
Sample Type:

Ref:

Dated: 19-07-2023

ASTM-A-615

Deformed Bar (Sheikhoo 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	1.501	6	0.749	0.44	0.441	14.32	19.08	71790	71630	95650	95430	1.60	8.0	20.0	
2	1.499	6	0.749	0.44	0.441	14.14	19.01	70870	70710	95290	95080	1.50	8.0	18.8	
3	0.654	4	0.494	0.20	0.192	6.01	8.36	66320	69090	92180	96020	1.20	8.0	15.0	
4	0.653	4	0.494	0.20	0.192	6.01	8.36	66320	69090	92180	96020	1.30	8.0	16.3	
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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

UniCon Consulting servise

RE Uni Con.(Capacity Building Center at University Of Agriculture,Faisalabad)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: Unicon/UAF/02

Dated: 18-07-2023

SOM Lab

Ref:

2593 (Page-1/1)

Dated:

19-07-2023

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	2.688	8	1.003	0.79	0.790	24.41	35.42	68160	68160	98890	98890	1.40	8.0	17.5	
2	2.692	8	1.004	0.79	0.791	24.77	35.49	69160	69070	99090	98970	1.50	8.0	18.8	
3	1.496	6	0.748	0.44	0.440	13.81	19.13	69240	69240	95910	95910	1.20	8.0	15.0	
4	1.480	6	0.744	0.44	0.435	13.73	19.06	68830	69620	95550	96650	1.50	8.0	18.8	
5	0.670	4	0.501	0.20	0.197	5.88	8.38	64860	65850	92400	93810	1.40	8.0	17.5	
6	0.671	4	0.501	0.20	0.197	5.98	8.38	65990	66990	92400	93810	1.40	8.0	17.5	
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BEND TEST:

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

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

Engineer Muhammad Irfan
 Asst Dir Infra. DHA Gujranwala.(Sector L)

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

Client Reference: 111/15/AD/RS/Lab/Sec L/358

Dated: 18-07-2023

Test: Tension Test & Bend Test

SOM Lab

Ref:

Dated:

ASTM-A-615

2594 (Page-1/1)

19-07-2023

Gauge Length: 8 inch Sample Type: Deformed Bar (Kamran 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	1.511	6	0.752	0.44	0.444	13.88	19.16	69590	68970	96060	95190	1.20	8.0	15.0	
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BEND TEST:

# 6	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

M.Rana Manzar Ali
PM AR Enerprise Lahore.(Alfatah Email Project)

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

Client Reference: AEM/ST/UET/14/08

SOM Lab

Ref: 2595 (Page-1/1)

Dated: 19-07-2023

Dated: 19-07-2023

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	2.637	8	0.993	0.79	0.775	25.25	33.15	70490	71860	92550	94340	1.40	8.0	17.5	
2	2.626	8	0.991	0.79	0.772	26.50	34.53	73990	75720	96390	98640	1.30	8.0	16.3	
3	1.484	6	0.745	0.44	0.436	14.37	18.73	72050	72710	93860	94720	1.30	8.0	16.3	
4	1.476	6	0.743	0.44	0.434	14.48	18.83	72560	73560	94370	95680	1.40	8.0	17.5	
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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

Asif Pervaiz Butt
RE Ritz Developers Pvt. Ltd.Lahore

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

Client Reference: Nil

Dated: 18-07-2023

Test: Tension Test & Bend Test

SOM Lab

Ref: 2596 (Page-1/3)

Dated: 19-07-2023

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	0.671	4	0.501	0.20	0.197	6.63	8.56	73070	74180	94420	95860	1.40	8.0	17.5	
2	0.668	4	0.500	0.20	0.196	6.34	8.56	69920	71350	94420	96350	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.73	8.79	74190	75320	96900	98370	1.30	8.0	16.3	
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BEND TEST:

# 4	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

Asif Pervaiz Butt
RE Ritz Developers Pvt. Ltd.Lahore

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

Client Reference: Nil
Dated: 18-07-2023

SOM Lab
Ref: 2596 (Page-2/3)
Dated: 19-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615
Deformed Bar (SJ 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	1.463	6	0.740	0.44	0.430	14.93	19.34	74860	76600	96930	99180	1.20	8.0	15.0	
2	1.456	6	0.738	0.44	0.428	14.60	19.47	73170	75220	97590	100330	1.30	8.0	16.3	
3	1.455	6	0.738	0.44	0.428	14.27	18.98	71540	73540	95140	97810	1.40	8.0	17.5	
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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

Asif Pervaiz Butt
RE Ritz Developers Pvt. Ltd.Lahore

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

Client Reference: Nil

Dated: 20-06-2023

Test: Tension Test & Bend Test

SOM Lab

Ref:

Dated:

ASTM-A-615

2596 (Page-3/3)

19-07-2023

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	2.670	8	1.000	0.79	0.785	21.68	33.46	60530	60920	93400	94000	1.40	8.0	17.5	
2	2.665	8	0.998	0.79	0.783	21.68	33.56	60530	61070	93680	94520	1.30	8.0	16.3	
3	2.665	8	0.998	0.79	0.783	22.29	33.84	62240	62800	94480	95330	1.40	8.0	17.5	
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BEND TEST:

# 8	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

Test Performed by: Dr. S. Asad Ali Gillani

Lt Col ® Muhammad Saeed
RE NM Associates. Site Office DBD, Bridge-1

Reference No.: NM/DBD/LAB/077
SOM Lab Ref: CED/SOM/2597(Page-1/2)

Dated: 17-07-2023
Dated: 19-07-2023

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

Sample Type: Elastomeric Bearing Pad (Size 550x320x83mm)

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

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	3.9 x 2.1	0.32	39.07	398.4	500.0
2	4.9 x 2.1	0.40	38.80	396.3	520.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	7.2 x 2.1	0.32	152.3
2	7.2 x 2.1	0.30	142.8

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.10	2.97	4.19

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

S. No	Sample Type	Hardness _{avg} (Shore A)
1	Elastomeric Bearing Pad	63.66

Test Performed by: Dr. S. Asad Ali Gillani**Lt Col ® Muhammad Saeed
RE NM Associates. Site Office DBD, Bridge-1****Reference No.: NM/DBD/LAB/077
SOM Lab Ref: CED/SOM/2597(Page-2/2)****Dated: 17-07-2023
Dated: 19-07-2023****Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test****Sample Type: Elastomeric Bearing Pad (Size 610x450x141mm)**

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

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm ²)	Elongation at Break(%)
1	5.1 x 2.5	0.48	37.64	383.8	520.0
2	4.9 x 2.5	0.45	36.73	374.5	500.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	8.0 x 2.5	0.38	152
2	8.0 x 2.5	0.35	140

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.89	3.6

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

S. No	Sample Type	Hardness _{avg} (Shore A)
1	Elastomeric Bearing Pad	63