

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(101 Tower, Lahore)

Test Performed by: Dr. Asad Ali Gillani

Client Reference No.: HRLE/SKG/2025/L-17/78-28/204

Dated: 11-03-2025

SOM Lab Ref: CED/SOM/918(Page-1/1)

Dated: 11-03-2025

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Ultimate Load	Ultimate stress	Remarks
	(mm)	(mm²)	kN	(Mpa)	
1	28	616	276.5	449	Threaded Slippage failure
2	28	616	361.7	587	Threaded Slippage failure

Witnessed by: M.Irfan QC Engr/HRL, Najam Shabbir(Sr.Site Engr 101 Group)

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

Test Performed by: .S. Asad Ali Gillani

Misha Asad
Manager Proposal & Contracts
Fiber Craft Industries, Lahore.

Client Reference No.: FCI/25/CR/23870
2025

SOM Lab Ref: CED/SOM/929 (Page 1/1)
2024

Dated: 10-03-

Dated: 11-03-

Test Type: Tension
Specification: ASTM D 368
Sample Type: Fiberglass Pultruded Structural Profile Being Used in the Cooling Tower Structure

Tension Test Results

Sample No.	Sample Size	Area (mm ²)	Ultimate Breaking Load (kN)	Ultimate Breaking Strength (MPa)
1	13.3 x 7.0	93.10	46.0	494.09
2	13.3 x 6.6	87.78	43.7	497.83
3	12.2 x 6.8	82.96	40.2	484.57

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

Sub Divisional officer, **Test Performed By:** Dr. /Engr. Asad Ali Gillani
HSD Bahawalnagar.(Const Of Roads &Rehb of Metalled Rds 1-Doulatpur,2-Laleka,3-Bachyanawali)

Client Reference: 396 BWN **SOM Lab**
Dated: 31-01-2025 **Ref:** 917 (Page-1/1)
Dated: 11-03-2025

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	2.664	8	0.998	0.79	0.783	23.57	35.14	65800	66390	98100	98970	1.30	8.0	16.3	
2	2.660	8	0.998	0.79	0.782	23.55	34.93	65740	66410	97530	98520	1.30	8.0	16.3	
3	1.500	6	0.749	0.44	0.441	14.37	19.83	72050	71880	99380	99160	1.40	8.0	17.5	
4	1.502	6	0.749	0.44	0.441	14.19	19.57	71130	70970	98100	97880	1.30	8.0	16.3	
5	0.664	4	0.498	0.20	0.195	7.14	9.40	78690	80710	103640	106300	1.30	8.0	16.3	
6	0.664	4	0.498	0.20	0.195	7.56	9.63	83410	85550	106230	108950	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 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															

Noor Fatima
100-B-III Gulberg III Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: ST/GF/5052/04/25

Dated: 11-03-2025

SOM Lab

Ref: 919 (Page-1/1)

Dated: 11-03-2025

Test: Tension Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

[illegible]

Amna Iftikhar
100-B-III Gulberg III Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: ST/GF/5054/05/25

Dated: 11-03-2025

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 920 (Page-1/1)

Dated: 11-03-2025

Test Specification:

ASTM-A-615

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	2.637	8	0.993	0.79	0.775	26.30	35.14	73420	74840	98100	99990	1.20	8.0	15.0	
2	0.654	4	0.494	0.20	0.192	6.85	8.72	75540	78690	96110	100120	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 8	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															

PM Agriculture Deptt Jadeed Group of Companies Rawalpindi.(Jadeed Forms Mankera Bakkar)

Dr. /Engr. Nauman Khurram

SOM Lab

Ref: 921 (Page-1/1)

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Hunza Steel)

[illegible]

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

PM Agriculture Deptt Jadeed Group of Companies Rawalpindi.(Jadeed Forms Mankera Bakkar)

Dr. /Engr. Nauman Khurram

SOM Lab

Ref: 922 (Page-1/1)

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Pak Iron Steel)

[illegible]

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

RE ARY Laguna DHA Gujranwala.(ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala)

Dr. /Engr. Wasim Abbas

Dated: 01-02-2025

Ref: 923 (Page-1/1)

Dated: 11-03-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq 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	16.77	21.30	84050	83110	106790	105590	1.20	8.0	15.0	
2	1.520	6	0.754	0.44	0.447	17.35	21.73	86970	85600	108940	107230	1.00	8.0	12.5	
3	0.669	4	0.501	0.20	0.197	7.61	9.43	83970	85250	103980	105560	1.00	8.0	12.5	
4	0.673	4	0.502	0.20	0.198	7.82	9.60	86220	87090	105890	106960	1.00	8.0	12.5	
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<u>BEND TEST:</u>															
# 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															

RE ARY Laguna DHA Gujranwala.(ARY Laguna Gateway & Pedestrian Crossover/Linear Park)

Dr. /Engr. Wasim Abbas

Dated: 10-03-2025

SOM Lab
Ref: 924 (Page-1/1)
Dated: 11-03-2025

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

Test Specification:	ASTM-A-615
Sample Type:	Deformed Bar (FF Steel)

[illegible]

BEND TEST:

# 8	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

Engr M Salman Saqib

Test Performed By: Dr. /Engr. Wasim Abbas

RE ARY Laguna DHA Gujranwala.(ARY Laguna Gateway & Pedestrian Crossover/Linear Park)

Client Reference: ARY(Gujr)/GL/Eng/RE/013/25

Dated: 10-03-2025

SOM Lab

Ref: 925 (Page-1/1)

Dated: 11-03-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal Steel)

[illegible][illegible]

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

RE ARY Laguna DHA Gujranwala.(ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala)

Dr. /Engr. Wasim Abbas

SOM Lab

Ref: 926 (Page-1/1)

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Sample Type:

Deformed Bar (FF 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	2.631	8	0.992	0.79	0.773	26.27	34.61	73340	74950	96620	98740	1.40	8.0	17.5	
2	2.620	8	0.990	0.79	0.770	26.12	34.51	72910	74810	96330	98830	1.20	8.0	15.0	
3	1.533	6	0.758	0.44	0.451	14.34	19.64	71890	70140	98460	96060	1.30	8.0	16.3	
4	1.474	6	0.743	0.44	0.433	13.76	18.86	68980	70100	94530	96060	1.40	8.0	17.5	
5	0.654	4	0.494	0.20	0.192	6.19	8.38	68230	71080	92400	96250	1.30	8.0	16.3	
6	0.625	4	0.484	0.20	0.184	5.86	7.92	64640	70260	87340	94940	1.30	8.0	16.3	
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<u>BEND TEST:</u>															
# 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. /Engr. Wasim Abbas

Client Reference: NZEB/ACE/LAB/2025/26

Dated: 11-03-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 927 (Page-1/1)

Dated: 11-03-2025

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	2.642	8	0.994	0.79	0.776	25.50	33.97	71200	72490	94820	96530	1.40	8.0	17.5	
2	2.631	8	0.992	0.79	0.773	25.20	34.05	70350	71900	95050	97140	1.50	8.0	18.8	
3	1.475	6	0.743	0.44	0.433	15.55	20.05	77920	79180	100500	102130	1.10	8.0	13.8	
4	1.478	6	0.743	0.44	0.434	15.39	19.88	77160	78220	99640	101010	1.30	8.0	16.3	
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<u>BEND TEST:</u>															
# 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															

APD PGSH Scheme,Fsd.(Const Of Jamia Mosque For Punjab Govt Servant Housing Scheme)

Dr. /Engr. Asad Ali Gillani

SOM Lab

Ref: 928 (Page-1/1)

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

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BEND TEST:

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

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

Nespak Lhr.(Construction of Electric Bus Depot at Green Town, Lahore)

Dr. /Engr. Asad Ali Gillani

SOM Lab

Ref: 930 (Page-1/1)

Test Specification:

ASTM-A-615

Sample Type:

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	2.658	8	0.997	0.79	0.781	23.04	37.87	64320	65060	105720	106940	1.40	8.0	17.5	
2	2.656	8	0.997	0.79	0.781	22.85	37.89	63810	64540	105780	107000	1.40	8.0	17.5	
3	1.496	6	0.748	0.44	0.440	12.51	19.80	62700	62700	99230	99230	1.30	8.0	16.3	
4	1.494	6	0.748	0.44	0.439	12.41	19.80	62190	62330	99230	99450	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	6.57	9.60	72510	73990	105890	108050	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	6.73	10.19	74190	75320	112410	114120	1.10	8.0	13.8	
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<u>BEND TEST:</u>															
# 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															