Mirza Muhammad Shahzad,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/81 **SOM Lab Ref:** 2526 (Page-1/1)
Dated: 04-07-2023 **Dated:** 07-07-2023

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	25.69	33.25	71720	73100	92830	94630	1.20	8.0	15.0	B-4090
2	2.639	8	0.994	0.79	0.776	25.40	33.23	70920	72200	92770	94450	1.40	8.0	17.5	B-4090
3	1.473	6	0.743	0.44	0.433	15.31	19.95	76750	77990	99990	101610	1.20	8.0	15.0	E-9278
4	1.493	6	0.748	0.44	0.439	14.50	19.32	72660	72820	96830	97050	1.30	8.0	16.3	E-9278
5	1.029	5	0.620	0.31	0.302	10.09	12.84	71800	73700	91380	93800	1.30	8.0	16.3	B-4060
6	1.030	5	0.621	0.31	0.303	9.86	13.02	70130	71750	92610	94750	1.10	8.0	13.8	B-4060
7	0.668	4	0.500	0.20	0.196	7.21	8.87	79470	81100	97800	99790	1.10	8.0	13.8	A-980
8	0.673	4	0.502	0.20	0.198	7.31	9.02	80600	81410	99480	100490	1.00	8.0	12.5	A-980
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 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:-

Only Twelve Samples Received and Tested

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

Executive Engineer (UCET) **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
University Of Sargodha.(Const Of Building Of Engg College University Of Sargodha)

Client Reference: SU/XEN(UCET)/7263 **SOM Lab Ref:** 2527 (Page-1/1)
Dated: 02-05-2023 **Dated:** 07-07-2023

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	1.516	6	0.754	0.44	0.446	15.67	20.08	78530	77480	100660	99300	1.20	8.0	15.0	
2	1.515	6	0.753	0.44	0.445	16.59	20.18	83130	82200	101170	100030	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	7.36	9.12	81160	82400	100610	102140	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	7.31	9.14	80600	81830	100830	102370	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Qamer Ayub Gujjar, AM **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Punjab Aab-e-Pak Authority.(Const,Instal Of Surface water treatment Plant,Solar &Scada Systems)

Client Reference: PAPA/(P&QC)DM/126 **SOM Lab Ref:** 2528 (Page-1/1)

Dated: 22-06-2023 **Dated:** 07-07-2023

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	0.672	4	0.501	0.20	0.197	6.80	8.79	74980	76120	96900	98370	1.30	8.0	16.3	
2	0.677	4	0.503	0.20	0.199	6.39	8.26	70480	70840	91050	91510	1.20	8.0	15.0	
3	0.673	4	0.502	0.20	0.198	6.37	8.28	70260	70970	91280	92200	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.27	8.21	69130	70190	90490	91870	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

M/S Project Managers
Lahore.(Allied Bank Ltd Plot No.14 Block A3 Gulberg III Lahore)

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

Client Reference: Nil
Dated: 07-07-2023

SOM Lab Ref: 2529 (Page-1/1)
Dated: 07-07-2023

Test: Tension Test & Bend Test
Test Specification: ASTM-A-615 Deformed Bar (FF 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	2.535	8	0.974	0.79	0.745	24.38	32.79	68070	72190	91550	97080	1.40	8.0	17.5	
2	2.543	8	0.975	0.79	0.747	24.03	32.77	67080	70940	91490	96760	1.40	8.0	17.5	
3	1.456	6	0.738	0.44	0.428	13.91	18.20	69750	71700	91210	93760	1.30	8.0	16.3	
4	1.451	6	0.736	0.44	0.426	13.53	18.11	67810	70030	90800	93780	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.27	8.77	69130	70190	96670	98140	1.10	8.0	13.8	
6	0.668	4	0.500	0.20	0.196	6.17	8.53	68010	69400	94090	96010	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Test Performed by: .S. Asad Ali Gillani

Misha Asad
AM Proposal & Contracts
Fiber Craft Industries, Lahore.
(Mechanical testing of Fiberglass Filament Wound Tank Samples)

Client Reference No.: FCI/23/CR/21544 Dated: 06-07-2023

SOM Lab Ref: CED/SOM/2525 (Page 1/2) Dated: 07-07-2023

Test Type: Tension & Flexural Test

Sample Type: Fiberglass Filament Wound Tank

Tension Test Results

Sample No.	Sample Size	Area (mm^2)	Ultimate Breaking Load (kN)	Ultimate Breaking Strength (MPa)	Remarks
1	27.0 x 15.4	415.80	48.5	116.64	
2	25.6 x 15.4	394.24	49.0	124.28	
3	27.7 x 14.8	409.96	39.7	96.83	

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

Test Performed by: S. Asad Ali Gillani

Misha Asad
AM Proposal & Contracts
Fiber Craft Industries, Lahore.
(Mechanical testing of Fiberglass Filament Wound Tank Samples)

Client Reference No.: FCI/23/CR/21544 Dated: 06-07-2023

SOM Lab Ref: CED/SOM/2525 (Page 2/2) Dated: 07-07-2023

Test Type: Tension & Flexural Test

Sample Type: Fiberglass Filament Wound Tank

Flexural Test Results

Sample No.	Sample Type	Strip Size	Ultimate Breaking Load (Kg)	Remarks
1	Fiberglass Filament Wound Tank	30.5x17.1x14.8	62	
2	Fiberglass Filament Wound Tank	30.4x17.4x15	56	
3	Fiberglass Filament Wound Tank	30.5x17.9x14.8	77	

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