

Project Director  
Pelican Builders & Property Consultants (Pvt) Ltd.(Pelican Mall)

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

Client Reference: PB/DHAB22/MALL/184

SOM Lab

Ref: 3503 (Page-1/1)

Dated: 11-01-2024

Dated: 15-01-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.579	8	0.982	0.79	0.758	25.50	33.94	71200	74210	94770	98770	1.30	8.0	16.3	
2	2.579	8	0.982	0.79	0.758	25.20	33.91	70350	73320	94680	98680	1.40	8.0	17.5	
3	1.444	6	0.735	0.44	0.424	13.43	18.76	67290	69830	94020	97560	1.30	8.0	16.3	
4	1.434	6	0.732	0.44	0.421	13.46	18.76	67450	70490	94020	98260	1.40	8.0	17.5	
5	0.644	4	0.491	0.20	0.189	6.83	9.14	75320	79700	100830	106700	1.10	8.0	13.8	
6	0.645	4	0.492	0.20	0.190	6.92	9.19	76330	80340	101390	106730	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Engr. Javed Asad

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

CRE JIP Consultants.(Const.of Jalapur Irrigation Canal and Its System)(No.JIP/WkS/ICB/P2)

Client Reference: JIPIC/TECH/CRE/P2/319

SOM Lab

Ref: 3504(Page-1/1)

Dated: 14-01-2024

Dated: 15-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Def.Bar (Islamabad Supreme)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.009	5	0.615	0.31	0.297	9.06	13.43	64470	67300	95510	99690	1.40	8.0	17.5	H#490
2	1.011	5	0.615	0.31	0.297	9.14	13.40	65050	67900	95370	99540	1.50	8.0	18.8	H#490
3	0.675	4	0.502	0.20	0.198	5.78	8.61	63740	64380	94990	95950	1.00	8.0	12.5	H#516
4	0.666	4	0.500	0.20	0.196	5.78	8.63	63740	65040	95210	97150	1.20	8.0	15.0	H#516
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**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Engr. Javed Asad

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

CRE JIP Consultants.(Const.of Jalapur Irrigation Canal and Its System)(No.JIP/WkS/ICB/P2)

Client Reference: JIPIC/TECH/CRE/P2/320

SOM Lab

Ref: 3505(Page-1/1)

Dated: 14-01-2024

Dated: 15-01-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Def.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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.601	6	0.774	0.44	0.470	17.18	23.26	86100	80600	116600	109160	1.30	8.0	16.3	H#660
2	1.593	6	0.772	0.44	0.468	17.35	23.47	86970	81760	117620	110580	1.40	8.0	17.5	H#660
3	1.118	5	0.647	0.31	0.329	11.62	15.16	82680	77900	107840	101610	1.30	8.0	16.3	H#126
4	1.114	5	0.645	0.31	0.327	11.44	15.16	81370	77140	107840	102230	1.20	8.0	15.0	H#126
5	0.665	4	0.498	0.20	0.195	6.57	8.87	72510	74360	97800	100300	1.20	8.0	15.0	H#232
6	0.663	4	0.498	0.20	0.195	6.52	8.87	71940	73790	97800	100300	1.20	8.0	15.0	H#232
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 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](http://www.uet-civil.edu.pk)

M.Arif Sahi, PM/Team Leader

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

Barqaab Consulting Services (Pvt) Ltd.(500/220kV Nowshehra HVAC Grid Station)

Client Reference: WB-05A/BQB/NTDC/0843

SOM Lab

Ref: 3506 (Page-1/1)

Dated: 12-01-2024

Dated: 15-01-2024

Test: Tension Test & Bend Test

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.098	5	0.641	0.31	0.323	10.98	14.53	78110	74960	103340	99190	1.30	8.0	16.3	
2	1.121	5	0.647	0.31	0.329	12.81	15.46	91160	85900	110020	103660	1.20	8.0	15.0	
3	0.674	4	0.502	0.20	0.198	7.16	9.68	78910	79710	106790	107870	1.30	8.0	16.3	
4	0.675	4	0.502	0.20	0.198	7.10	9.53	78350	79140	105100	106160	1.20	8.0	15.0	
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**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Umair Latif, Dev Engr

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

University of Punjab.(Const Of New Academic Block at Hailey College Of Banking & Finance at A.I.C)

Client Reference: Nil

SOM Lab

Ref: 3507 (Page-1/1)

Dated: 02-01-2024

Dated: 15-01-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	3.347	9	1.119	1.00	0.984	31.57	41.76	69630	70760	92110	93610	1.50	8.0	18.8	
2	3.348	9	1.119	1.00	0.984	31.52	41.79	69520	70650	92180	93680	1.40	8.0	17.5	
3	2.666	8	0.998	0.79	0.783	22.85	34.51	63810	64380	96330	97190	1.50	8.0	18.8	
4	2.667	8	0.999	0.79	0.784	25.43	34.22	71000	71550	95530	96270	1.40	8.0	17.5	
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**BEND TEST:**

# 9	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	

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Asstt: Executive Engr-I

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

CCD No.1Pak PWD Lhr.(Repair/Replacement of Old Overhead Water Tank at NSPP Lahore)

Client Reference: AEE-I/LCCD-I/LHR/167

SOM Lab

Ref: 3508 (Page-1/1)

Dated: 01-01-2024

Dated: 15-01-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.519	6	0.754	0.44	0.446	17.45	20.61	87480	86300	103310	101930	1.20	8.0	15.0	
2	1.516	6	0.754	0.44	0.446	15.16	19.85	75980	74960	99480	98140	1.10	8.0	13.8	
3	0.670	4	0.501	0.20	0.197	7.46	9.02	82290	83540	99480	101000	1.10	8.0	13.8	
4	0.677	4	0.503	0.20	0.199	6.70	9.02	73850	74230	99480	99980	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)