

Pelican Builders  
PD DHA Bahawalpur.(Pelican Mall)

**Test Performed By:** Dr. /Engr. Mazhar Saleem

**Client Reference:** PB/DHAB/DHA/MALL/84  
**SOM Lab Ref:** CED/SOM/1217(Page-1/1)  
**Test:** Tension Test & Bend Test  
**Sample Type:** MS Deformed Bar

**Dated:** 07-11-2022  
**Dated:** 07-11-2022  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.957	25	25.33	491	504	256.00	357.70	522	508	729	710	35.0	200	17.5	
2	3.914	25	25.20	491	499	247.00	358.20	503	496	730	719	37.5	200	18.8	
3	2.213	20	18.95	314	282	134.50	184.50	428	478	587	655	32.5	200	16.3	
4	2.214	20	18.95	314	282	134.00	188.70	427	476	601	669	35.0	200	17.5	
5	1.000	12	12.74	113	127	60.50	80.70	535	475	714	634	25.0	200	12.5	
6	1.000	12	12.74	113	127	71.70	90.00	634	563	796	707	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Muhammad Shakil,CE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Technical Associates Pakistan (Pvt) Ltd.(Const Of New Cardiac Center Within SZMC at R.Y.Khan)

Client Reference: HO/TAPL-NCC/11032

SOM Lab

Ref: 1216 (Page-1/1)

Dated: 04-11-2022

Dated: 07-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco 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	2.591	8	0.984	0.79	0.761	27.29	34.42	76180	79090	96100	99770	1.30	8.0	16.3	
2	2.589	8	0.984	0.79	0.761	27.73	39.37	77410	80360	109910	114090	1.30	8.0	16.3	
3	2.045	7	0.875	0.60	0.601	17.40	26.81	63960	63860	98550	98380	1.40	8.0	17.5	
4	2.079	7	0.882	0.60	0.611	17.43	27.34	64080	62920	100490	98690	1.30	8.0	16.3	
5	1.514	6	0.753	0.44	0.445	16.84	20.10	84410	83460	100760	99630	1.20	8.0	15.0	
6	1.510	6	0.752	0.44	0.444	16.64	20.00	83390	82640	100250	99350	1.10	8.0	13.8	
7	1.047	5	0.626	0.31	0.308	9.33	14.55	66360	66790	103490	104160	1.20	8.0	15.0	
8	1.048	5	0.626	0.31	0.308	9.38	14.53	66720	67160	103340	104020	1.30	8.0	16.3	
9	0.670	4	0.501	0.20	0.197	6.60	8.66	72730	73840	95550	97000	1.20	8.0	15.0	
10	0.666	4	0.500	0.20	0.196	6.70	8.84	73850	75360	97460	99450	1.10	8.0	13.8	

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
# 7	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: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Shakeel Ahmad  
Officer (Purchase) Rupafil Limited. Lahore

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

Client Reference: Nil

SOM Lab

Ref: 1218 (Page-1/1)

Dated: 07-11-2022

Dated: 07-11-2022

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	0.672	4	0.501	0.20	0.197	6.63	8.58	73070	74180	94650	96090	1.10	8.0	13.8	
2	0.668	4	0.500	0.20	0.196	5.81	7.44	64080	65380	82060	83730	1.20	8.0	15.0	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Tahir Mehmood, Chief Engr

Test Performed By:

Dr. /Engr. Mazhar Saleem

Zaitoon, New Lahore City. Lahore (Const Of Butt Karahi by Versatile Contractor, New Lahore City)

Client Reference: NLC/CE/Const/63

SOM Lab

Ref: 1219 (Page-1/1)

Dated: 02-11-2022

Dated: 07-11-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.653	8	0.997	0.79	0.780	27.27	34.86	76130	77100	97330	98580	1.20	8.0	15.0	
2	2.643	8	0.995	0.79	0.777	27.12	35.29	75700	76970	98520	100170	1.20	8.0	15.0	
3	1.479	6	0.744	0.44	0.435	19.88	23.82	99640	100780	119410	120780	1.00	8.0	12.5	
4	1.479	6	0.744	0.44	0.435	20.08	23.85	100660	101820	119560	120940	1.10	8.0	13.8	
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**BEND TEST:**

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

THE GENERATORS  
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1220 (Page-1/1)

Dated: 07-11-2022

Dated: 07-11-2022

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	0.673	4	0.502	0.20	0.198	6.54	9.07	72170	72900	100050	101060	1.00	8.0	12.5	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)