

Zia Ur Rehman

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Al- Tariq Constructors (Pvt) Ltd.(Parco for Parco MCR 4th LPG Spher Project)

Client Reference: ATL-INS-0012-B

Dated

: 17-08-2023

SOM Lab Ref: CED/SOM/2704(Page-1/1)

Dated

: 18-08-2023

Test: Tension Test &amp; Bend Test

Test Specification:

ASTM-A 615

Sample  
Type:

Deformed Bar (Sheikhoo Steel)

Gauge Length:

m  
200 m

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	m	%	
1	3.864	25	25.03	491	492	227.00	322.00	462	462	656	655	35.0	200	17.5	
2	3.893	25	25.13	491	496	228.00	324.20	464	460	660	654	32.5	200	16.3	
3	2.954	22	21.89	380	376	190.00	253.50	500	505	667	674	37.5	200	18.8	
4	2.951	22	21.88	380	376	189.00	251.20	497	503	661	669	37.5	200	18.8	
5	2.440	20	19.89	314	311	181.50	231.50	578	585	737	745	35.0	200	17.5	
6	2.438	20	19.89	314	311	181.50	231.70	578	585	738	747	37.5	200	18.8	
7	1.582	16	16.02	201	202	100.50	134.70	500	499	670	669	35.0	200	17.5	
8	1.570	16	15.96	201	200	101.50	136.20	505	508	677	681	32.5	200	16.3	
9	0.881	12	11.96	113	112	53.20	72.70	470	474	643	648	35.0	200	17.5	
10	0.880	12	11.95	113	112	53.50	72.50	473	478	641	647	32.5	200	16.3	

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack
22mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**Only Fifteen Samples  
Received and TestedNote: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Yasir Ahmad  
GM-Works FF Steel Lahore.

Test Performed By: Dr. /Engr. Irfan Ul Hassan

Client Reference: Nil

SOM Lab

Ref: 2705 (Page-1/1)

Dated: 12-08-2023

Dated: 18-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.500	6	0.749	0.44	0.441	14.58	19.37	73070	72900	97080	96860	1.40	8.00	17.5	1
2	1.505	6	0.750	0.44	0.442	14.55	19.44	72910	72580	97440	97000	1.20	8.00	15.0	2
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**BEND TEST:**

--	No Bend test performed	<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)

Engr's Abdul Waheed

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

PE OZ Developers Lahore.(Const a High-rise Building Bahria Sky at Bahria Orchard ph-4 Lhr)

Client Reference: Nil

SOM Lab

Ref: 2706 (Page-1/1)

Dated: 18-08-2023

Dated: 18-08-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.711	8	1.007	0.79	0.797	24.46	32.90	68300	67700	91840	91030	1.50	8.00	18.8	
2	2.687	8	1.003	0.79	0.790	26.20	34.22	73140	73140	95530	95530	1.60	8.00	20.0	
3	1.446	6	0.736	0.42	0.425	14.02	18.14	70260	72740	90950	94160	1.50	8.00	18.8	
4	1.433	6	0.732	0.42	0.421	13.93	17.99	69850	73000	90180	94250	1.60	8.00	20.0	
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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)

Mohsin Riaz , CM

Test Performed By: Dr. /Engr. Irfan Ul Hassan

Washing Extension Building For Thaheem Construction Company.(Master Textile Mills Facility)

Client Reference: Nil

SOM Lab

Ref: 2707 (Page-1/1)

Dated: 08-08-2023

Dated: 18-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.645	8	0.995	0.79	0.777	27.19	35.09	75900	77170	97950	99590	1.50	8.00	18.8	
2	2.735	8	1.012	0.79	0.804	23.60	32.08	65880	64740	89560	88000	1.40	8.00	17.5	
3	1.559	6	0.764	0.44	0.458	14.68	19.29	73580	70690	96670	92870	1.30	8.00	16.3	
4	1.480	6	0.744	0.44	0.435	13.76	18.62	68980	69770	93350	94420	1.50	8.00	18.8	
5	0.667	4	0.500	0.20	0.196	6.42	8.41	70820	72270	92740	94630	1.10	8.00	13.8	
6	0.672	4	0.501	0.20	0.197	6.34	8.31	69920	70990	91610	93010	1.20	8.00	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)

Farhan Ramzan

Test Performed By: Dr. /Engr. Nauman Khurram

Site Supervisor Premier Services.(Zong MSC Kot Lakhpat,Lahore)(Allied Engg Consultants)

Client Reference: Nil

SOM Lab

Ref: 2708 (Page-1/1)

Dated: 21-08-2023

Dated: 18-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type: 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	5.50	8.31	60700	61320	91610	92540	1.30	8.0	16.3	
2	0.666	4	0.500	0.20	0.196	5.52	8.33	60930	62170	91840	93710	1.20	8.0	15.0	
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Witnessed By: Abdul Rehman, Farhan Ramzan

**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)

Muhammad Irfan  
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

**Test Performed By:** Dr. /Engr. Irfan Ul Hassan

**Client Reference:** DOC-BMC/AJWA/096

**SOM Lab**

**Ref:** 2709 (Page-1/1)

**Dated:** 18-08-2023

**Dated:** 18-08-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

ASTM-A-615

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	2.615	8	0.989	0.79	0.768	24.92	34.48	69580	71580	96250	99000	1.50	8.00	18.8	
2	2.637	8	0.993	0.79	0.775	26.20	34.93	73140	74550	97530	99410	1.40	8.00	17.5	
3	1.464	6	0.740	0.44	0.430	14.98	20.23	75110	76860	101420	103780	1.30	8.00	16.3	
4	1.487	6	0.746	0.44	0.437	13.66	19.24	68470	68940	96420	97080	1.40	8.00	17.5	
5	0.665	4	0.498	0.20	0.195	6.63	8.66	73070	74940	95550	98000	1.10	8.00	13.8	
6	0.672	4	0.501	0.20	0.197	6.68	8.87	73630	74750	97800	99290	1.10	8.00	13.8	
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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)

Muhammad Shafi

Test Performed By: Dr. /Engr. Irfan Ul Hassan

Acting PD PIEDMC Chunian.(Const And Maintenance Works In Chunian Aqua Business Park)

Client Reference: PIE/CABP/QAQC/MSL/27

SOM Lab

Ref: 2710 (Page-1/1)

Dated: 17-08-2023

Dated: 17-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Al Aziz)

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	1.034	5	0.622	0.31	0.304	8.56	13.51	60920	62120	96090	97990	1.50	8.00	18.8	
2	1.041	5	0.624	0.31	0.306	8.51	13.37	60560	61350	95150	96390	1.40	8.00	17.5	
3	0.659	4	0.497	0.20	0.194	5.73	8.69	63180	65130	95770	98740	1.10	8.00	13.8	
4	0.663	4	0.498	0.20	0.195	6.19	8.99	68230	69980	99150	101690	1.20	8.00	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)