

Engr. Shair Muhammad  
Resident Engineer, M-3 IC Industrial City, Faislabad

**Test Performed By:** Dr. /Engr. M Yousaf

**Client Reference:** CRE/M4IC/AIIC-GS-01/Lab/119

**Dated:** 26-04--2021

**SOM Lab Ref:** CED/SOM/4246(Page-1/1)

**Dated:** 26-04-2021

**Test:** Tension Test & Bend Test

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

**Sample Type:** M S Deformed (AGHA Arclon Steel)

**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	3.848	25	24.98	491	490	241.70	318.00	492	494	648	649	37.5	200	18.8	
2	3.854	25	25.00	491	491	245.00	321.20	499	500	654	655	37.5	200	18.8	
3	2.170	19	18.76	284	276	148.00	191.50	522	536	675	693	32.5	200	16.3	
4	2.171	19	18.76	284	277	149.50	192.50	527	541	679	697	30.0	200	15.0	
5	1.557	16	15.89	201	198	103.00	129.50	512	520	644	653	32.5	200	16.3	
6	1.568	16	15.95	201	200	103.50	129.70	515	519	645	650	27.5	200	13.8	
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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
19mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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 Khalid Zaman

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Resident Engineer, Engineering Consultancy Services Punjab (Pvt) Ltd. ahore

Client Reference: ECSP/PAPA/CZ-LHR-08

Dated: 26-04-2021

SOM Lab Ref: CED/SOM/4252 (Page-1/1)

Dated: 26-04-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

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	1.002	12	12.77	113	128	68.00	92.50	601	532	818	723	30.0	200	15.0	
2	1.000	12	12.74	113	127	68.00	92.00	601	534	813	723	30.0	200	15.0	
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**BEND TEST:**

12mm	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 Iftikhar Talib  
Resident Engineer, Asif Ali & Associates (Pvt) Ltd. Lahore

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

Client Reference: RE/AAA/SGRP/005

SOM Lab 4243 (Page-

Ref: 1/1)

Dated: 12-04-2021

Dated: 26-04-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.043	5	0.625	0.31	0.307	10.88	13.78	77380	78140	98050	99010	1.30	8.0	16.3	
2	1.027	5	0.620	0.31	0.302	10.96	13.97	77960	80030	99360	101990	1.10	8.0	13.8	
3	0.665	4	0.498	0.20	0.195	7.70	9.65	84870	87050	106450	109180	1.10	8.0	13.8	
4	0.657	4	0.496	0.20	0.193	7.56	9.60	83410	86430	105890	109730	1.00	8.0	12.5	
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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)

S. M Zafar Laiq  
Tijaarat Developers, Lahore

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

Client Reference: TD/UET-OPUS/0419-01

SOM Lab 4244(Page-

Ref: 1/1)

Dated: 19-04-2021

Dated: 26-04-2021

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	2.599	8	0.986	0.79	0.764	24.33	34.30	67930	70240	95760	99020	1.50	8.0	18.8	
2	2.594	8	0.985	0.79	0.762	23.24	32.90	64890	67270	91840	95210	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	13.58	19.39	68060	67750	97180	96740	1.50	8.0	18.8	
4	1.492	6	0.747	0.44	0.438	14.95	19.57	74960	75300	98100	98550	1.30	8.0	16.3	
5	0.669	4	0.501	0.20	0.197	6.93	9.19	76440	77600	101390	102940	1.00	8.0	12.5	
6	0.671	4	0.501	0.20	0.197	6.85	9.14	75540	76690	100830	102370	1.00	8.0	12.5	
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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)

Khalid Oversras Corporation  
Small Industries Estate, Sialkot

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

Client Reference: nil

SOM Lab 4245 (Page-

Ref: 1/1)

Dated: 26-04-2021

Dated: 26-04-2021

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	2.584	8	0.983	0.79	0.759	24.01	32.72	67020	69760	91350	95080	1.40	8.0	17.5	
2	2.591	8	0.984	0.79	0.761	24.26	33.05	67730	70310	92260	95780	1.40	8.0	17.5	
3	1.491	6	0.747	0.44	0.438	15.77	20.10	79050	79410	100760	101220	1.20	8.0	15.0	
4	1.492	6	0.747	0.44	0.438	15.72	20.18	78790	79150	101170	101630	1.10	8.0	13.8	
5	0.675	4	0.502	0.20	0.198	7.82	9.60	86220	87090	105890	106960	1.00	8.0	12.5	
6	0.674	4	0.502	0.20	0.198	7.85	9.55	86560	87430	105330	106390	1.00	8.0	12.5	
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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. Shair Muhammad  
Resident Engineer, M-3 IC Industrial City, Faisalabad

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

**Client Reference:** CRE/M4IC/AIIC-GS-01 Lab/119

**SOM Lab** 4246 (Page-

**Ref:** 1/1)

**Dated:** 21-04--2021

**Dated:** 26-04-2021

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar( Agha Arcion 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	1.486	6	0.746	0.44	0.437	15.82	19.49	79300	79850	97690	98370	1.70	8.0	21.3	
2	1.491	6	0.747	0.44	0.438	17.07	20.49	85590	85980	102700	103170	1.60	8.0	20.0	
3	1.007	5	0.614	0.31	0.296	8.92	13.53	63460	66460	96240	100790	1.30	8.0	16.3	
4	1.003	5	0.613	0.31	0.295	8.77	13.40	62370	65540	95370	100220	1.40	8.0	17.5	
5	0.649	4	0.493	0.20	0.191	6.37	8.41	70260	73570	92740	97110	1.40	8.0	17.5	
6	0.647	4	0.492	0.20	0.190	5.68	8.36	62610	65910	92180	97030	1.30	8.0	16.3	
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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)

Muhammad Shabbir  
Construction Manager, Opal, Deever Developers Pvt. Ltd. Lahore

**Test Performed By:** Dr. /Engr. Qasim Shaukat

**Client Reference:** ZD/ZO/L/024

**SOM Lab** 4249(Page-

**Ref:** 1/1)

**Dated:** 26-04-2021

**Dated:** 26-04-2021

**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	2.641	8	0.994	0.79	0.776	25.91	36.56	72340	73650	102080	103920	1.30	8.0	16.3	
2	2.666	8	0.998	0.79	0.783	26.09	37.00	72830	73480	103300	104230	1.20	8.0	15.0	
3	1.470	6	0.742	0.44	0.432	12.77	18.20	64020	65210	91210	92890	1.40	8.0	17.5	
4	1.488	6	0.746	0.44	0.437	13.99	19.32	70100	70590	96830	97490	1.30	8.0	16.3	
5	0.665	4	0.498	0.20	0.195	6.24	8.74	68800	70560	96340	98810	1.40	8.0	17.5	
6	0.698	4	0.511	0.20	0.205	6.39	9.28	70480	68760	102290	99800	1.50	8.0	18.8	
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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)

Adnan Jamil

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer, Amad Anwar & Partners, Architects and Interior Designers, Lahore

Client Reference: AA/CCA/31/2/002

SOM Lab 4250(Page-

Ref: 1/1)

Dated: 22-04-2021

Dated: 26-04-2021

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	2.655	8	0.997	0.79	0.780	27.98	35.78	78120	79120	99890	101170	1.50	8.0	18.8	
2	2.653	8	0.997	0.79	0.780	27.95	35.65	78030	79030	99520	100790	1.50	8.0	18.8	
3	1.515	6	0.753	0.44	0.445	15.67	19.83	78530	77650	99380	98260	1.30	8.0	16.3	
4	1.497	6	0.748	0.44	0.440	15.67	19.64	78530	78530	98460	98460	1.40	8.0	17.5	
5	0.659	4	0.497	0.20	0.194	6.75	8.56	74420	76720	94420	97340	1.20	8.0	15.0	
6	0.655	4	0.494	0.20	0.192	6.93	8.61	76440	79620	94990	98940	1.00	8.0	12.5	
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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)



Ajmal Kaleem Ullah  
Resident Engineer, AZEA, Sialkot Residency

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

Client Reference: AZEA/SIALKOT/ADAM/20/111

SOM Lab 4251 (Page-

Ref: 1/1)

Dated: 21-04-2021

Dated: 26-04-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Plain Bar & 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	2.542	8	0.975	0.79	0.747	20.95	33.54	58480	61850	93630	99020	0.70	8.0	8.8	Plain
2	2.589	8	0.984	0.79	0.761	23.82	39.81	66510	69040	111130	115360	0.70	8.0	8.8	Plain
3	2.592	8	0.985	0.79	0.762	23.92	38.38	66790	69250	107140	111080	0.60	8.0	7.5	Plain
4	1.498	6	0.748	0.44	0.440	12.00	18.78	60140	60140	94120	94120	1.00	8.0	12.5	Plain
5	1.499	6	0.749	0.44	0.441	11.93	18.73	59780	59650	93860	93650	1.10	8.0	13.8	Plain
6	1.500	6	0.749	0.44	0.441	12.00	18.76	60140	60010	94020	93800	1.10	8.0	13.8	Plain
7	0.575	4	0.464	0.20	0.169	4.76	7.29	52500	62130	80370	95120	1.00	8.0	12.5	Deformed
8	0.572	4	0.462	0.20	0.168	4.89	7.46	53960	64240	82290	97960	1.10	8.0	13.8	Deformed
9	0.574	4	0.464	0.20	0.169	4.96	7.59	54750	64790	83750	99110	1.00	8.0	12.5	Deformed
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Nine 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)

Sami Ullah warraich  
Project Manager TCPL, Tameer Construction (Pvt) Ltd. Lahore

**Test Performed By:** Dr. /Engr. Qasim Shaukat

**Client Reference:** TCPL/CONST-PEL Unit 4/21/1894

**SOM Lab** 4253(Page-

**Ref:** 1/1)

**Dated:** 26-04-2021

**Dated:** 26-04-2021

**Test:** Tension Test & bend Test

**Test Specification:** BS - 4449

**Guage Length:** 2.5 inch

**Sample Type:** Tor 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	0.633	4	0.487	0.20	0.186	6.14	7.85	67670	72770	86560	93070	0.40	2.5	16.0	
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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)