

Zubair Ahmed  
Zubair Ahmed Engineers & Contractors, Lahore

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

Client Reference: Nil

SOM Lab

Ref: 5078(Page-1/1)

Dated: 01-10-2021

Dated: 01-10-2021

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	1.469	6	0.742	0.44	0.432	14.14	19.11	70870	72180	95800	97580	1.20	8.0	15.0	
2	1.469	6	0.742	0.44	0.432	14.02	19.01	70260	71560	95290	97060	1.40	8.0	17.5	
3	0.624	4	0.483	0.20	0.183	6.95	8.18	76660	83790	90150	98530	1.00	8.0	12.5	
4	0.621	4	0.481	0.20	0.182	7.03	8.21	77560	85230	90490	99440	0.90	8.0	11.3	
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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)

Site Engineer  
Allied Engineers Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: AE/PU/Economics/1

SOM Lab

Ref: 5079(Page-1/1)

Dated: 01-10-2021

Dated: 01-10-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (EFCO 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	2.606	8	0.988	0.79	0.766	21.56	34.96	60190	62080	97610	100670	1.60	8.0	20.0	
2	2.585	8	0.984	0.79	0.760	21.05	34.37	58770	61090	95960	99750	1.30	8.0	16.3	
3	1.469	6	0.742	0.44	0.432	12.51	19.85	62700	63860	99480	101330	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	12.81	20.20	64230	64380	101270	101500	1.40	8.0	17.5	
5	0.661	4	0.497	0.20	0.194	6.09	9.43	67110	69190	103980	107190	1.30	8.0	16.3	
6	0.652	4	0.494	0.20	0.192	6.08	9.28	67000	69790	102290	106560	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)

Asif Pervaiz Butt  
Resident Engineer, AYQ Developers Pvt. Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: NIL

Dated: 30-09-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 5080(Page-1/2)

Dated: 01-10-2021

ASTM-A-615

Deformed Bar ( AF  
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	0.655	4	0.494	0.20	0.192	6.49	8.72	71610	74590	96110	100120	1.20	8.0	15.0	
2	0.643	4	0.491	0.20	0.189	6.44	8.77	71040	75180	96670	102300	1.00	8.0	12.5	
3	0.656	4	0.496	0.20	0.193	6.44	9.17	71040	73620	101170	104840	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 Four 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)

Asif Pervaiz Butt  
Resident Engineer, AYQ Developers Pvt. Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: NIL

Dated: 30-09-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 5080(Page-2/2)

Dated: 01-10-2021

ASTM-A-615

Deformed Bar ( AF  
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	1.525	6	0.755	0.44	0.448	15.39	20.51	77160	75780	102800	100970	1.10	8.0	13.8	
2	1.527	6	0.756	0.44	0.449	15.62	21.00	78280	76710	105260	103150	1.30	8.0	16.3	
3	1.488	6	0.746	0.44	0.437	15.41	20.54	77260	77790	102960	103660	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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)

Mian Shabbir Hussain  
GM Development, Al-Kabir Town (Pvt.) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: Nil

Dated: 01-10-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 5081(Page-1/1)

Dated: 01-10-2021

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	2.601	8	0.986	0.79	0.764	27.14	34.10	75760	78340	95190	98430	1.00	8.0	12.5	
2	2.593	8	0.985	0.79	0.762	26.81	33.86	74850	77600	94540	98010	1.20	8.0	15.0	
3	1.516	6	0.754	0.44	0.446	15.06	18.83	75470	74450	94370	93100	1.50	8.0	18.8	
4	1.520	6	0.754	0.44	0.447	15.06	18.86	75470	74290	94530	93050	1.30	8.0	16.3	
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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)

Nadeem Mushtaq  
Senior Civil Engineer, National Management Foundation, Lahore

**Test Performed By:**

Dr. /Engr. S. Asad Ali Gillani

**Client Reference:** NMF/GM/F-61

**SOM Lab**

**Ref:** 5082(Page-1/1)

**Dated:** 01-10-2021

**Dated:** 01-10-2021

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:**

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	2.680	8	1.002	0.79	0.788	26.01	33.20	72630	72810	92690	92920	1.80	8.0	22.5	
2	2.670	8	1.000	0.79	0.785	25.35	32.98	70780	71230	92060	92650	1.50	8.0	18.8	
3	1.517	6	0.754	0.44	0.446	15.65	19.59	78430	77380	98210	96880	1.30	8.0	16.3	
4	1.500	6	0.749	0.44	0.441	15.21	19.18	76240	76060	96160	95940	1.30	8.0	16.3	
5	1.045	5	0.625	0.31	0.307	11.08	14.39	78830	79600	102400	103400	1.10	8.0	13.8	
6	1.041	5	0.624	0.31	0.306	10.98	14.29	78110	79130	101680	103010	1.30	8.0	16.3	
7	0.660	4	0.497	0.20	0.194	7.39	9.12	81500	84020	100610	103720	1.00	8.0	12.5	
8	0.660	4	0.497	0.20	0.194	9.09	9.14	100270	103370	100830	103950	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 Twelve Samples Received and Tested
# 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)

