

Aftab Ahmed

Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr. M Yousaf

Client Reference: 410/8/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 340(Page-1/1)

Dated: 20-02-2019

Dated: 22-02-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.638	8	0.993	0.79	0.775	28.29	33.44	78970	80500	93340	95150	1.70	8.0	21.3	
2	2.637	8	0.993	0.79	0.775	23.75	33.54	66310	67590	93630	95440	1.70	8.0	21.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Prof . Dr. AmanUllah Khan

Acting Project Director, Air University, Multan Campus, 4-5th Floor, Khan Centre, Abdali Road, Multan

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: MUX/AUMC/AB1/2018/53

Dated: 22-02-2019

SOM Lab

Ref: 341(P-1/1)

Dated: 22-02-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.509	6	0.751	0.44	0.443	16.74	20.76	83900	83330	104080	103380	0.90	8.0	11.3	
2	1.496	6	0.748	0.44	0.440	16.13	20.05	80830	80830	100500	100500	1.00	8.0	12.5	
3	0.650	4	0.493	0.20	0.191	5.07	7.70	55870	58500	84870	88870	1.50	8.0	18.8	
4	0.652	4	0.494	0.20	0.192	5.12	7.72	56430	58780	85100	88640	1.50	8.0	18.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Usman Akmal

Dy Dir MTL, Const of Mosque at Sector - N, DHA - VI - (M/S A 2 Z Const)

SOM Lab

Ref:

343-349(Page-1/1)

Client Reference: 408/241/E/Lab/458

Dated: 22-02-2019

Dated:

22-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City U. E. S)

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	23.72	33.84	66220	67940	94480	96940	1.50	8.0	18.8	
2	2.591	8	0.984	0.79	0.761	22.22	33.51	62040	64400	93540	97110	1.40	8.0	17.5	
3	1.632	6	0.782	0.44	0.480	16.18	21.78	81090	74330	109190	100090	1.20	8.0	15.0	
4	1.614	6	0.777	0.44	0.474	16.31	21.87	81750	75890	109600	101740	1.10	8.0	13.8	
5	0.672	4	0.501	0.20	0.197	6.14	9.30	67670	68700	102520	104080	1.00	8.0	12.5	
6	0.679	4	0.505	0.20	0.200	6.24	9.43	68800	68800	103980	103980	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Abdul Qayyum Chaudhary,
Resident Engineer, NESPAK (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Bilal Khiokhar

Client Reference: 2636/103/AQC/SL/02/312

SOM Lab

Ref: 344(Page-1/1)

Dated: 20-02-2019

Dated: 22-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.547	6	0.761	0.44	0.455	14.88	20.54	74600	72140	102960	99560	1.20	8.0	15.0	
2	1.010	5	0.615	0.31	0.297	11.43	14.48	81300	84860	102980	107490	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 5	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

Sub Divisional Officer
(Civil), GC University, Faisalabad

Test Performed By: Dr. /Engr. Bilal A Khokhar

Client Reference: GCUF/EC/0225

SOM Lab

Ref: 345 (Page-1/1)

Dated: 14-02-2019

Dated: 22-02-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.718	8	1.009	0.79	0.799	26.63	34.76	74330	73500	97040	95950	1.20	8.0	15.0	
2	2.657	8	0.997	0.79	0.781	25.50	34.73	71200	72020	96960	98070	1.50	8.0	18.8	
3	1.479	6	0.744	0.44	0.435	14.88	19.67	74600	75460	98610	99750	1.10	8.0	13.8	
4	1.498	6	0.748	0.44	0.440	16.18	21.46	81090	81090	107560	107560	1.20	8.0	15.0	
5	0.655	4	0.494	0.20	0.192	6.03	8.10	66550	69320	89370	93090	1.20	8.0	15.0	
6	0.656	4	0.496	0.20	0.193	6.34	8.23	69920	72460	90720	94010	0.90	8.0	11.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Sub Divisional Officer
Buildings Sub Division, Sargodha

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: 63/SGD

SOM Lab

Ref: 346 (Page-1/2)

Dated: 11-02-2019

Dated: 22-02-2019

Test: Tension 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.683	4	0.506	0.20	0.201	5.19	8.07	57220	56930	89030	88590	1.10	8.0	13.8	
2	0.685	4	0.506	0.20	0.201	5.22	8.05	57560	57270	88800	88360	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional Officer
Buildings Sub Division, Sargodha

Test Performed By: Dr. /Engr. Bilal A. Khokhar

Client Reference: 63/SGD

SOM Lab

Ref: 346 (Page-2/2)

Dated: 11-02-2019

Dated: 22-02-2019

Test: Tension 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.510	6	0.752	0.44	0.444	11.16	16.97	55950	55450	85070	84310	1.40	8.0	17.5	
2	1.511	6	0.752	0.44	0.444	11.03	16.87	55290	54790	84560	83800	1.30	8.0	16.3	
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5	0.705	4	0.513	0.20	0.207	6.70	8.79	73850	71360	96900	93620	1.20	8.0	15.0	
6	0.668	4	0.500	0.20	0.196	6.65	8.92	73290	74790	98360	100370	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk