

Engr Ali Usman Awan
General Manager, B.E Civil (UET) M. Arch. Lahore

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

Client Reference: nil

Dated: 05-04-2019

SOM Lab Ref: CED/SOM/608 (Page-1/1)

Dated: 05-04-2019

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J- Bolt

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.350	24	23.32	452	427	178.20	288.00	394	418	637	675	17.5	50	35.0	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Sub Divisional Officer
Highway Sub Division, Jampur

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

Client Reference: 201/J

SOM Lab

Ref: 601 (Page-1/1)

Dated: 22-03-2019

Dated: 05-04-2019

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	2.720	8	1.009	0.79	0.799	25.10	33.35	70070	69280	93120	92070	1.20	8.0	15.0	
2	2.711	8	1.007	0.79	0.797	24.57	33.71	68590	67980	94110	93290	1.60	8.0	20.0	
3	1.516	6	0.754	0.44	0.446	14.37	18.96	72050	71080	95040	93760	1.40	8.0	17.5	
4	1.568	6	0.766	0.44	0.461	14.24	19.85	71380	68130	99480	94950	1.50	8.0	18.8	
5	0.633	4	0.487	0.20	0.186	5.78	8.33	63740	68540	91840	98750	1.40	8.0	17.5	
6	0.631	4	0.485	0.20	0.185	5.50	8.26	60700	65620	91050	98430	1.30	8.0	16.3	
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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

Muhammad Saleem Bhatti
Resident Engineer, AZ Engineering Associates, Lahore

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

Client Reference: AZEA/REKMK/748

Dated: 01-03-2019

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 602(Page-1/1)

Dated: 05-04-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.358	8	0.939	0.79	0.693	17.07	23.30	47670	54340	65060	74160	1.80	8.0	22.5	
2	1.432	6	0.732	0.44	0.421	11.59	17.40	58100	60720	87220	91160	1.40	8.0	17.5	
3	0.657	4	0.496	0.20	0.193	5.73	8.69	63180	65470	95770	99250	1.30	8.0	16.3	
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BEND TEST:

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

Muhammad Nawaz
Sargodha

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

Client Reference: nil

Dated: 08-04-2019

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 610(Page-1/1)

Dated: 08-04-2019

ASTM-A-615
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	1.422	6	0.730	0.44	0.418	16.31	22.83	81750	86060	114450	120480	1.10	8.0	13.8	
2	1.428	6	0.731	0.44	0.420	13.25	18.76	66430	69590	94020	98490	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	6.22	8.46	68570	71430	93300	97190	1.20	8.0	15.0	
4	0.653	4	0.494	0.20	0.192	6.09	8.45	67110	69910	93190	97070	1.20	8.0	15.0	
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BEND TEST:

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

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

Assistant Engineer (C)
University of Sargodha

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

Client Reference: SU/P.D.(w)/4716

SOM Lab

Ref: 607(Page-1/1)

Dated: 02-04-2019

Dated: 05-04-2019

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	2.582	8	0.983	0.79	0.759	27.39	34.12	76470	79590	95250	99140	1.60	8.0	20.0	
2	2.589	8	0.984	0.79	0.761	27.39	34.07	76470	79380	95110	98730	1.40	8.0	17.5	
3	1.446	6	0.736	0.44	0.425	15.97	21.22	80070	82890	106380	110130	1.00	8.0	12.5	
4	1.449	6	0.736	0.44	0.426	15.76	21.17	78990	81590	106130	109610	1.20	8.0	15.0	
5	0.667	4	0.500	0.20	0.196	7.23	9.14	79700	81330	100830	102890	1.10	8.0	13.8	
6	0.667	4	0.500	0.20	0.196	7.82	9.38	86220	87980	103420	105530	1.00	8.0	12.5	
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BEND TEST:

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

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

Sohail Zafar

Resident Engineer, Project Management Office, Fazaia Housing Scheme, Near Nawab Chowk,
Gujranwala

Test Performed By:

Dr. /Engr. Bilal A. Khokhar

Client Reference: FHSG/PMO/6015/5/4/DEV

SOM Lab Ref: 609(Page-1/1)

Dated: 03-04-2019

Dated: 05-04-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	3.223	9	1.098	1.00	0.947	30.09	38.60	66370	70080	85140	89900	1.50	8.0	18.8	
2	3.244	9	1.102	1.00	0.953	30.70	39.60	67720	71060	87340	91650	1.60	8.0	20.0	
3	2.619	8	0.990	0.79	0.770	24.99	33.40	69780	71590	93260	95680	1.40	8.0	17.5	
4	2.628	8	0.991	0.79	0.772	25.03	33.56	69870	71500	93680	95870	1.30	8.0	16.3	
5	1.501	6	0.749	0.44	0.441	12.80	18.35	64180	64030	91970	91760	1.40	8.0	17.5	
6	1.498	6	0.748	0.44	0.440	12.90	18.45	64640	64640	92480	92480	1.60	8.0	20.0	
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BEND TEST:

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

Faisal Mubarik Shabbir
Khan(Retd.)

Test Performed By:

Dr. /Engr.

Nauman
Khurram

TBt, TI (M), Lieutenant Colonel, Additional Director Development, DHA Phaes-XI (Rehbar) Lahore

Client Reference: 700/3/Girls School/Ph-XI/Projs/1217

SOM Lab

Ref: 606(Page-1/1)

Dated: 04-04-2019

Dated: 04-04-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Amreli 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	2.608	8	0.988	0.79	0.766	26.47	32.59	73910	76220	90980	93830	1.40	8.0	17.5	
2	2.592	8	0.985	0.79	0.762	24.79	33.61	69210	71760	93830	97270	1.40	8.0	17.5	
3	1.490	6	0.747	0.44	0.438	15.60	20.59	78180	78530	103210	103680	1.10	8.0	13.8	
4	1.495	6	0.748	0.44	0.439	15.04	20.13	75370	75540	100910	101140	1.20	8.0	15.0	
5	0.664	4	0.498	0.20	0.195	7.61	8.74	83970	86120	96340	98810	1.00	8.0	12.5	
6	0.673	4	0.502	0.20	0.198	7.41	8.72	81720	82550	96110	97080	1.00	8.0	12.5	
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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

