

Muhammad Shafiq
 Engineer's Representative, NESPAK (Pvt) Ltd. Lahore

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

Client Reference: 3957/13/MS/10/171

Dated: 22-03-2019

SOM Lab Ref: CED/SOM/516 (Page-1/1)

Dated: 22-03-2019

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	5.195	27	29.03	573	662	375.60	479.50	656	568	837	725	12.5	50	25.0	
2	5.062	27	28.65	573	645	378.20	496.00	661	587	866	770	12.5	50	25.0	
3	5.192	27	29.02	573	661	376.70	487.20	658	570	851	737	13.8	50	27.5	
4	2.619	20	20.61	314	334	172.70	277.70	550	518	884	833	10.0	50	20.0	
5	8.692	20	37.55	314	1107	172.50	276.50	549	156	880	250	10.0	50	20.0	
6	8.795	20	37.77	314	1120	151.20	224.70	481	135	715	201	10.0	50	20.0	
7	0.902	12	12.09	113	115	87.20	103.70	771	760	917	903	11.3	50	22.5	
8	0.953	12	12.44	113	121	69.20	88.20	612	570	780	727	10.0	50	20.0	
9	0.978	12	12.59	113	125	62.40	84.20	552	501	744	676	10.0	50	20.0	
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BEND TEST:

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

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

Sajid Mahmood
 Manager Construction Projects, Allied Bank

Test Performed By: Dr. /Engr. M Rehan Ashraf

Client Reference: HOL/Engg C.P./SM/2019

SOM Lab

Ref: 509(Page-1/1)

Dated: 21-03-2019

Dated: 22-03-2019

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	2.658	8	0.997	0.79	0.781	21.89	33.64	61100	61810	93910	94990	1.70	8.0	21.3	
2	2.560	8	0.979	0.79	0.752	21.56	33.44	60190	63230	93340	98060	1.00	8.0	12.5	
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Witnessed By: Hanif Bashir, ABL

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

Assistant Executive Engineer-
IV,
Central Civil Division No. II, Pak P.W.D., Lahore

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

Client Reference: AEE/CCD-II/11

SOM Lab

Ref: 510(Page-1/1)

Dated: 15-03-2019

Dated: 22-03-2019

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	1.080	5	0.635	0.31	0.317	11.59	13.83	82460	80640	98410	96240	1.30	8.0	16.3	
2	1.068	5	0.632	0.31	0.314	11.52	13.76	81950	80910	97910	96660	1.30	8.0	16.3	
3	0.659	4	0.497	0.20	0.194	7.57	9.70	83520	86100	107010	110320	0.90	8.0	11.3	
4	0.656	4	0.496	0.20	0.193	7.61	9.76	83970	87020	107580	111480	0.90	8.0	11.3	
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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

Executive Engineer(UCET)
University of Sargodha

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

Client Reference: SU/XEN/383

SOM Lab

Ref: 511(Page-1/1)

Dated: 21-03-2019

Dated: 22-03-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed Bar(FF
Steel)

Gauge Length: 8 inch

Sample Type:

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	1.494	6	0.748	0.44	0.439	15.36	20.66	77000	77180	103570	103810	1.20	8.0	15.0	
2	1.495	6	0.748	0.44	0.439	15.39	20.76	77160	77330	104080	104320	1.40	8.0	17.5	
3	0.670	4	0.501	0.20	0.197	6.42	8.79	70820	71900	96900	98370	1.20	8.0	15.0	
4	0.668	4	0.500	0.20	0.196	6.52	8.97	71940	73410	98920	100940	1.30	8.0	16.3	
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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

Memar Associates,
48-A, Saeed Colony # 2, Fahad Street, Canal Road Faisalabad

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

Client Reference: Memar/RC/MCB/05

SOM Lab

Ref: 512(Page-1/1)

Dated: 21--03-2019

Dated: 22-03-2019

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	2.712	8	1.007	0.79	0.797	30.28	37.64	84520	83780	105070	104140	1.30	8.0	16.3	
2	1.505	6	0.750	0.44	0.442	15.41	19.44	77260	76910	97440	97000	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Muhammad Affan
Project Manager, ICON Valley, Lahore

Test Performed By: Dr. /Engr. M Irfan UI Hahhan

Client Reference: Nil

SOM Lab

Ref: 513(Page-1/1)

Dated: 22-03-2019

Dated: 22-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(Mughal Steel)

Gauge Length: 8 inch

Sample Type:

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	2.570	8	0.980	0.79	0.755	27.08	33.94	75610	79120	94770	99160	1.30	8.0	16.3	
2	2.587	8	0.984	0.79	0.760	27.18	33.91	75870	78870	94680	98420	1.40	8.0	17.5	
3	1.506	6	0.751	0.44	0.443	16.11	20.61	80730	80190	103310	102620	1.20	8.0	15.0	
4	1.511	6	0.752	0.44	0.444	16.23	20.69	81340	80610	103720	102790	1.30	8.0	16.3	
5	0.652	4	0.494	0.20	0.192	7.41	9.23	81720	85130	101730	105970	1.00	8.0	12.5	
6	0.666	4	0.500	0.20	0.196	7.26	9.12	80040	81670	100610	102660	1.10	8.0	13.8	
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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
Highways Sub Division No 1, Gujranwala

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

Client Reference: 1934/G-I

SOM Lab

Ref: 514 (Page-1/1)

Dated: 19-03-2019

Dated: 22-03-2019

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	2.686	8	1.002	0.79	0.789	19.80	31.77	55270	55340	88700	88820	1.30	8.0	16.3	
2	2.543	8	0.975	0.79	0.747	23.92	32.28	66790	70640	90130	95320	1.40	8.0	17.5	
3	1.513	6	0.753	0.44	0.445	14.73	20.41	73830	73000	102290	101140	1.20	8.0	15.0	
4	1.458	6	0.738	0.44	0.428	16.62	20.56	83290	85620	103060	105950	1.00	8.0	12.5	
5	0.664	4	0.498	0.20	0.195	6.49	8.53	71610	73440	94090	96500	1.00	8.0	12.5	
6	0.660	4	0.497	0.20	0.194	6.60	8.77	72730	74980	96670	99660	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

Syed Abdul Jabbar
GM Engineering, Cotton Web Limited, Lahore

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

Client Reference: nil

SOM Lab

Ref: 517(Page-1/2)

Dated: 22-03-2019

Dated: 22-03-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed Bar(SJ,
Steel)

Gauge Length: 8 inch

Sample Type:

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	2.660	8	0.998	0.79	0.782	26.55	36.03	74140	74890	100600	101630	1.20	8.0	15.0	
2	1.085	5	0.637	0.31	0.319	10.88	14.19	77380	75200	100950	98100	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

Syed Abdul Jabbar
GM Engineering, Cotton Web Limited, Lahore

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

Client Reference: nil
Dated: 22-03-2019

SOM Lab
Ref: 517(Page-2/2)
Dated: 22-03-2019

Test: Tension Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar(City 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	2.629	8	0.992	0.79	0.773	22.22	35.90	62040	63410	100230	102430	1.30	8.0	16.3	
2	1.046	5	0.625	0.31	0.307	12.05	15.55	85720	86560	110600	111680	1.00	8.0	12.5	
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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

Engr. Asim
M/S Fabcon Design and Engineering (Pvt) Ltd. Lahore

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

Client Reference: nil
Dated: 22-03-2019

SOM Lab
Ref: 518(Page-2/2)
Dated: 22-03-2019

Test: Tension Test & Bend Test Test Specification:

ASTM-A-615
Deformed
Bar

Gauge Length: 8 inch Sample Type:

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	2.658	8	0.997	0.79	0.781	27.06	37.10	75560	76430	103590	104780	1.20	8.0	15.0	
2	1.521	6	0.754	0.44	0.447	13.30	19.18	66680	65640	96160	94660	1.30	8.0	16.3	
3	0.660	4	0.497	0.20	0.194	6.42	8.92	70820	73010	98360	101400	1.20	8.0	15.0	
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BEND TEST:

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

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Received and Tested

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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. M Irfan UI Hahhan

Client Reference: CONC - 20190322

SOM Lab

Ref: 519(Page-1/1)

Dated: 22-03-2019

Dated: 22-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(As, SJ, 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	2.634	8	0.993	0.79	0.774	24.13	35.55	67360	68750	99230	101290	1.10	8.0	13.8	AF
2	2.694	8	1.004	0.79	0.792	25.45	37.31	71060	70880	104160	103890	1.20	8.0	15.0	AF
3	1.441	6	0.734	0.44	0.423	14.48	18.67	72560	75470	93610	97370	1.20	8.0	15.0	SJ
4	1.455	6	0.738	0.44	0.428	16.51	20.76	82780	85100	104080	107000	1.10	8.0	13.8	SJ
5	0.610	4	0.477	0.20	0.179	6.24	8.23	68800	76870	90720	101360	1.10	8.0	13.8	AS
6	0.607	4	0.476	0.20	0.178	5.73	7.92	63180	70980	87340	98140	1.10	8.0	13.8	AS
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Received and Tested

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