

Aftab Ahmed

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

Test Performed By:

Dr. /Engr. Ali Ahmed

Client Reference: 410/6/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 784(Page-1/1)

Dated: 02-05-2019

Dated: 08-05-2019

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	1.457	6	0.738	0.44	0.428	13.40	18.78	67190	69080	94120	96760	1.10	8.0	13.8	
2	1.450	6	0.736	0.44	0.426	13.17	18.88	66020	68190	94630	97740	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Shahid Builders (Pvt) Ltd.
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: SBL/2019/201

SOM Lab

Ref: 785 (Page-1/1)

Dated: 08-05-2019

Dated: 08-05-2019

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	2.635	8	0.993	0.79	0.774	28.54	36.26	79680	81330	101230	103320	1.20	8.0	15.0	
2	2.631	8	0.992	0.79	0.773	28.31	36.14	79030	80770	100880	103100	1.30	8.0	16.3	
3	1.455	6	0.738	0.44	0.428	13.05	18.62	65400	67240	93350	95970	1.50	8.0	18.8	
4	1.457	6	0.738	0.44	0.428	13.07	18.57	65510	67340	93100	95710	1.50	8.0	18.8	
5	0.637	4	0.488	0.20	0.187	6.29	8.87	69360	74180	97800	104600	1.20	8.0	15.0	
6	0.638	4	0.488	0.20	0.187	6.27	8.87	69130	73940	97800	104600	1.40	8.0	17.5	
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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

Abdul Qayyum Chaudhary

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Resident Engineer - NESPAK LRRP - Northern Loop Maintenance, Lahore

Client Reference: 2636/103/AQC/NL/02/08

SOM Lab

Ref: 786 (Page-1/1)

Dated: 04-05-2019

Dated: 08-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(SJ

Gauge Length: 8 inch

Sample Type:

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	1.037	5	0.623	0.31	0.305	10.72	14.04	76300	77550	99860	101500	1.20	8.0	15.0	
2	1.037	5	0.623	0.31	0.305	10.83	14.19	77020	78280	100950	102610	0.90	8.0	11.3	
3	0.667	4	0.500	0.20	0.196	6.19	8.72	68230	69630	96110	98070	1.20	8.0	15.0	
4	0.664	4	0.498	0.20	0.195	6.17	8.66	68010	69750	95550	98000	1.20	8.0	15.0	
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BEND TEST:

# 5	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

Ch Abdul Ghafoor(Resident Engineer)

Test Performed By: Dr. /Engr. Nauman Khurram

Workers Welfare Complex(Phase-I)Adjacent to Sundar Industrial Estate, Distt. Kasur(Package-A & B)

Client Reference: RE/PEPAC/Sundar/AB-153

SOM Lab

Ref: 788(Page-1/1)

Dated: 07-05-2019

Dated: 08-05-2019

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	1.060	5	0.630	0.31	0.312	12.08	14.14	85940	85390	100590	99940	0.90	8.0	11.3	
2	1.042	5	0.624	0.31	0.306	10.06	12.56	71580	72520	89350	90520	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 5	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

Muhammad Ishaq
Junior Research Officer-I, Building Research Station, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 154-R/1087

SOM Lab

Ref: 789(Page-1/1)

Dated: 30-04-2019

Dated: 08-05-2019

Test: Tension Test & Bend Test

Test Specification:

BS - 4449

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	2.667	8	0.999	0.79	0.784	27.83	35.19	77690	78290	98240	98990	1.30	5.0	26.0	
2	2.666	8	0.998	0.79	0.783	27.62	35.32	77120	77810	98610	99490	1.25	5.0	25.0	
3	1.497	6	0.748	0.44	0.440	15.29	19.78	76640	76640	99130	99130	1.00	4.0	25.0	
4	1.498	6	0.748	0.44	0.440	17.64	20.18	88400	88400	101170	101170	0.85	4.0	21.3	
5	1.053	5	0.627	0.31	0.309	11.31	13.86	80500	80760	98630	98950	0.75	3.0	25.0	
6	1.054	5	0.628	0.31	0.310	11.21	13.68	79780	79780	97330	97330	0.80	3.0	26.7	
7	0.664	4	0.498	0.20	0.195	7.24	9.02	79810	81860	99480	102030	0.55	2.5	22.0	
8	0.665	4	0.498	0.20	0.195	7.34	9.07	80940	83010	100050	102610	0.50	2.5	20.0	
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BEND TEST:

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