

Ejaz Khan
Resident Engineer, Asif Ali & Associates (Pvt) Ltd. Lahore

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

Client Reference: THDP/RE/01/513
SOM Lab Ref: CED/SOM/2602(Page-1/1)

Dated: 11-06-2020
Dated: 18-06-2020

Test: Tension Test & Bend Test
Sample Type: Deformed Bar(FF Steel)

Test Specification: ASTM-A 615
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	3.990	25	25.43	491	508	257.80	360.20	525	508	734	710	27.5	200	13.8	
2	3.995	25	25.46	491	509	258.70	360.00	527	509	733	708	30.0	200	15.0	
3	1.650	16	16.36	201	210	117.90	149.50	586	561	744	712	32.5	200	16.3	
4	1.651	16	16.36	201	210	111.70	147.70	556	532	735	703	35.0	200	17.5	
5	0.956	12	12.45	113	122	62.50	77.50	553	514	685	637	27.5	200	13.8	
6	0.929	12	12.27	113	118	60.50	75.00	535	512	663	635	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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

Muhamma Umar
Deputy Director (Maint.) National Highway Authority, Wazirabad (N-5)

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

Client Reference: Gen/DD(Maint)/WZD/NHA/2020/411

Dated: 11-06-2020

SOM Lab Ref: CED/SOM/2594(Page-2/2)

Dated: 17-06-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	0.894	12	12.05	113	114	54.20	81.00	479	476	716	711	27.5	200	13.8	
2	0.896	12	12.06	113	114	53.70	80.00	475	471	707	701	22.5	200	11.3	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
12mm	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

Maryam Adnan,
Executive Division, 5th Buildings Division, Lahore

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

Client Reference: 3338-
Dated: 09-06-2020

SOM Lab
Ref: 2585(Page-1/1)
Dated: 16-06-2020

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	2.673	8	1.000	0.79	0.786	26.40	34.56	73710	74080	96470	96960	1.30	8.0	16.3	
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BEND TEST:

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

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

Rana Aadil Farooq
Deputy Director (QCD), WASA, LDA, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: QCD/ 1035-36

SOM Lab 2586(Page-
Ref: 1/1)

Dated: 15-06-2020

Dated: 16-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	0.665	4	0.498	0.20	0.195	5.76	7.95	63510	65140	87680	89930	1.50	8.0	18.8	
2	0.663	4	0.498	0.20	0.195	5.88	8.99	64860	66530	99150	101690	1.20	8.0	15.0	
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BEND TEST:

# 4	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 Waqas Anwar
Resident Engineer-I, NESPAK, Lahore

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: 3772/FMU/103/MWA/04/34

SOM Lab

Ref: 2588(Page-1/1)

Dated: 15-06-2019

Dated: 16-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(PAK 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	2.648	8	0.995	0.79	0.778	26.68	34.76	74480	75630	97040	98540	1.10	8.0	13.8	
2	2.631	8	0.992	0.79	0.773	25.76	34.27	71920	73500	95680	97780	1.20	8.0	15.0	
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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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr.

S Asad Ali
Gillani

Client Reference: ST/UET/ 20200616

SOM Lab

Ref: 2589(Page-1/1)

Dated: 16-06-2020

Dated: 16-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(AF
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	2.509	8	0.969	0.79	0.737	20.59	29.94	57490	61620	83580	89590	1.30	8.0	16.3	
2	2.518	8	0.971	0.79	0.740	21.48	31.21	59960	64010	87140	93030	1.20	8.0	15.0	
3	2.517	8	0.971	0.79	0.740	21.00	29.58	58630	62590	82590	88170	1.20	8.0	15.0	
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BEND TEST:

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

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

Khalid Bashir
 CEO, Ittefaq Building Solutions (Pvt) Ltd. Lahore (Project: Barrett Hodgson University Toba Tek Singh)

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

Client Reference: IBS/BHU/ST00

SOM Lab Ref: 2590(Page-1/2)

Dated: 16-06-2020

Dated: 16-06-2020

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	2.670	8	1.000	0.79	0.785	28.59	40.69	79830	80330	113600	114330	1.00	8.0	12.5	
2	1.552	6	0.762	0.44	0.456	15.95	20.76	79970	77160	104080	100430	1.00	8.0	12.5	
3	0.637	4	0.488	0.20	0.187	6.37	8.92	70260	75140	98360	105200	1.10	8.0	13.8	
4	2.635	8	0.993	0.79	0.774	6.52	8.28	18220	18590	23110	23590	1.20	8.0	15.0	
5	0.379	3	0.376	0.11	0.111	7.21	9.04	144500	143190	181280	179650	1.00	8.0	12.5	
6	0.381	3	0.378	0.11	0.112	7.16	9.02	143470	140910	180870	177640	1.10	8.0	13.8	
7	0.396	3	0.384	0.11	0.116	7.65	9.55	153280	145360	191500	181600	1.00	8.0	12.5	
8	0.678	4	0.503	0.20	0.199	7.49	9.40	82620	83040	103640	104160	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested
# 4	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

Engr M. Naveed Sadiq
Resident Engineer, Orbit Developers Private Limited Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 2591(Page-1/1)

Dated: 16-06-2020

Dated: 16-06-2020

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	1.501	6	0.749	0.44	0.441	15.82	21.41	79300	79120	107300	107060	1.20	8.0	15.0	
2	1.466	6	0.741	0.44	0.431	15.97	22.75	80070	81740	114040	116430	1.10	8.0	13.8	
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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