

Tahir Mehmood
Chief Engineer (Infra) New Lahore City

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

Client Reference: NLC/CE/Infra/009
SOM Lab Ref: CED/SOM/1534(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar (AFCO Steel)

Dated: 07-10-2019
Dated: 07-10-2019
Test Specification: ASTM-F-1554
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	3.818	25	24.88	491	486	272.20	337.70	555	561	688	695	30.0	200	15.0	
2	3.806	25	24.85	491	485	264.00	329.00	538	545	670	679	32.5	200	16.3	
3	2.200	19	18.89	284	280	137.00	183.20	483	489	646	654	27.5	200	13.8	
4	2.194	19	18.87	284	280	138.70	185.00	489	497	652	662	25.0	200	12.5	
5	0.945	12	12.38	113	120	51.70	72.00	457	430	637	599	37.5	200	18.8	
6	0.943	12	12.37	113	120	51.00	72.00	451	425	637	600	35.0	200	17.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
19mm	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

Syed Samiuddin Ahmed

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Senior Resident Engineer, ProMag (Pvt) Ltd Site Office - DHA, Mattital Road, Multan

Client Reference: CRE/Sec-C/332

SOM Lab

Ref: 1532(Page-1/1)

Dated: 03-10-2019

Dated: 07-10-2019

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	0.674	4	0.502	0.20	0.198	6.29	9.45	69360	70060	104200	105260	1.00	8.0	12.5	
2	0.671	4	0.501	0.20	0.197	6.24	9.40	68800	69840	103640	105220	1.00	8.0	12.5	
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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

Naveed Anwar
PEACH CLUB, Lahore

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

Client Reference: nil
Dated: 07-10-2019

SOM Lab
Ref: 1533(Page-2/2)
Dated: 07-10-2019

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	0.659	4	0.497	0.20	0.194	6.80	8.63	74980	77300	95210	98160	1.10	8.0	13.8	
2	0.650	4	0.493	0.20	0.191	6.65	8.15	73290	76750	89930	94170	1.10	8.0	13.8	
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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

Naveed Anwar
PEACH CLUB, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

SOM Lab

Ref: 1533(Page-1/2)

Dated: 07-10-2019

Dated: 07-10-2019

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	2.683	8	1.002	0.79	0.788	23.04	35.37	64320	64480	98750	99000	1.40	8.0	17.5	
2	2.676	8	1.000	0.79	0.786	23.09	35.24	64460	64790	98380	98880	1.50	8.0	18.8	
3	1.481	6	0.744	0.44	0.435	12.08	19.18	60550	61250	96160	97270	1.20	8.0	15.0	
4	1.491	6	0.747	0.44	0.438	12.15	19.16	60910	61190	96060	96500	1.10	8.0	13.8	
5	0.685	4	0.506	0.20	0.201	5.81	8.51	64080	63760	93860	93400	1.00	8.0	12.5	
6	0.692	4	0.508	0.20	0.203	5.78	8.51	63740	62800	93860	92480	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

Tahir Mehmood
Chief Engineer (Infra) New Lahore City

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

Client Reference: NLC/CE/Infra/009

SOM Lab 1534 (Page-
Ref: 1/1)

Dated: 04-10-2019

Dated: 07-10-2019

Test: Tension Test & Bend test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar (AFCCO 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	2.672	8	1.000	0.79	0.785	28.00	35.22	78180	78670	98320	98950	1.50	8.0	18.8	
2	2.521	8	0.971	0.79	0.741	27.65	34.32	77180	82280	95820	102160	1.20	8.0	15.0	
3	1.508	6	0.751	0.44	0.443	13.63	18.11	68320	67850	90800	90180	1.40	8.0	17.5	
4	1.502	6	0.749	0.44	0.441	13.76	18.17	68980	68820	91050	90850	1.10	8.0	13.8	
5	0.683	4	0.506	0.20	0.201	10.40	12.25	114660	114090	135120	134440	0.60	8.0	7.5	
6	0.666	4	0.500	0.20	0.196	7.00	8.74	77230	78800	96340	98300	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

Amjad Saeed
Resident Engineer, NESPAK (Pvt) Ltd Ltd Lahore

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

Client Reference: 3994/103/AS/002/1230

SOM Lab
Ref: 1535(Page-1/1)

Dated: 16-09-2019

Dated: 07-10-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kisan 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	1.503	6	0.750	0.44	0.442	14.95	19.90	74960	74620	99740	99290	1.20	8.0	15.0	
2	1.505	6	0.750	0.44	0.442	15.36	20.08	77000	76650	100660	100200	1.10	8.0	13.8	
3	1.028	5	0.620	0.31	0.302	10.77	13.86	76660	78690	98630	101240	1.00	8.0	12.5	
4	1.030	5	0.621	0.31	0.303	10.83	13.93	77020	78800	99140	101430	1.00	8.0	12.5	
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BEND TEST:

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

Muhammad Khalid
Sub Engineer, PASSCO Div. Multan.

Test Performed By: Dr. /Engr.

M. Irfan UI
Hassan

Client Reference: PASSCO/EE/MTN/19/238

SOM Lab

Ref: 1536(Page-1/1)

Dated: 01-10-2019

Dated: 07-10-2019

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	2.552	8	0.977	0.79	0.750	24.11	34.71	67310	70890	96900	102070	1.10	8.0	13.8	
2	2.571	8	0.981	0.79	0.756	24.14	34.83	67390	70420	97240	101620	1.30	8.0	16.3	
3	0.665	4	0.498	0.20	0.195	6.14	8.97	67670	69410	98920	101460	1.10	8.0	13.8	
4	0.681	4	0.505	0.20	0.200	5.88	8.43	64860	64860	92960	92960	1.10	8.0	13.8	
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BEND TEST:

# 8	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

Shoab Razzaq
 Project Coordinator, SINACO Engineers (Pvt) Ltd.

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

Client Reference: SEL/LHR/C-441/10429

SOM Lab
 Ref: 1537(Page-1/1)

Dated: 07-10-2019

Dated: 07-10-2019

Test: Tension 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	2.641	8	0.994	0.79	0.776	29.33	37.23	81880	83350	103930	105800	1.00	8.0	12.5	
2	1.546	6	0.760	0.44	0.454	18.40	22.34	92230	89380	112000	108550	1.00	8.0	12.5	
3	0.658	4	0.496	0.20	0.193	6.19	9.45	68230	70710	104200	107980	1.00	8.0	12.5	
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BEND TEST:

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

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