

Abdul Rasheed
 General Manager, (Projects) A.S. Enterprises, Engineers & Contractors, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: USD/ASE/16

Dated: 08-05-2019

SOM Lab Ref: CED/SOM/800(Page-1/1)

Dated: 13-04-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(AFCO Steel)

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	1.536	16	15.80	201	196	87.70	122.70	436	448	610	627	25.0	200	12.5	
2	1.526	16	15.73	201	194	126.20	175.20	628	650	871	902	27.5	200	13.8	
3	0.900	12	12.08	113	115	62.50	78.00	553	546	690	681	25.0	200	12.5	
4	0.893	12	12.04	113	114	67.20	80.00	594	591	707	703	20.0	200	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman
Khurram

By Dir MTL, Infra Development Works of Sector - E, DHA Phase IX - (M/S Inland)

Client Reference: 408/241/E/Lab/563/41

SOM Lab

Ref: 798(Page-1/1)

Dated: 09-05-2019

Dated: 13-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	2.616	8	0.990	0.79	0.769	24.06	35.34	67160	69000	98660	101360	1.40	8.0	17.5	
2	2.612	8	0.989	0.79	0.768	22.73	34.83	63460	65280	97240	100030	1.40	8.0	17.5	
3	1.482	6	0.745	0.44	0.436	14.02	20.10	70260	70900	100760	101680	0.90	8.0	11.3	
4	1.467	6	0.741	0.44	0.431	13.73	19.67	68830	70260	98610	100670	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	

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

Engr. Alina Bashir
 Manager Project, Allied Engineering Consultants (Pvt) Ltd.

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

Client Reference: Aec/LHR-I/2019/510

SOM Lab

Ref: 799(Page-1/1)

Dated: 02-05-2019

Dated: 13-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(S J 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	2.621	8	0.990	0.79	0.770	23.65	34.20	66020	67740	95480	97960	1.20	8.0	15.0	
2	2.662	8	0.998	0.79	0.782	24.33	35.19	67930	68630	98240	99240	1.50	8.0	18.8	
3	1.494	6	0.748	0.44	0.439	13.71	19.64	68730	68880	98460	98690	1.30	8.0	16.3	
4	1.476	6	0.743	0.44	0.434	14.60	20.25	73170	74180	101530	102930	1.20	8.0	15.0	
5	0.654	4	0.494	0.20	0.192	5.63	8.69	62050	64640	95770	99760	1.00	8.0	12.5	
6	0.657	4	0.496	0.20	0.193	5.71	8.77	62950	65230	96670	100180	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr Usama Mehmood

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

Iftikhar Ahmed
Project Manager, Midland Developers, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 802(Page-1/1)

Dated: 03-05-2019

Dated: 13-05-2019

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	2.638	8	0.993	0.79	0.775	26.25	34.51	73280	74700	96330	98200	1.20	8.0	15.0	
2	1.494	6	0.748	0.44	0.439	14.95	19.47	74960	75130	97590	97810	1.20	8.0	15.0	
3	1.495	6	0.748	0.44	0.439	14.93	19.59	74860	75030	98210	98430	1.10	8.0	13.8	
4	0.625	4	0.484	0.20	0.184	5.83	8.28	64300	69890	91280	99210	1.00	8.0	12.5	
5	0.634	4	0.487	0.20	0.186	6.09	8.61	67110	72160	94990	102140	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	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	
# 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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Dy Dir MTL, External Elec. System, U/G of IVY Green Sector-Z, - DHA , Ph-VIII - (M/S NLC)

Client Reference: 408/241/E/564A/146

SOM Lab

Ref: 803(Page-1/1)

Dated: 09-05-2019

Dated: 06-05-2019

Test: Tension Test & Bend 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	1.489	6	0.747	0.44	0.438	15.14	20.08	75880	76220	100660	101120	1.10	8.0	13.8	
2	1.493	6	0.748	0.44	0.439	15.21	20.03	76240	76410	100400	100630	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 154-R/1144

SOM Lab

Ref: 804(Page-1/1)

Dated: 06-05-2019

Dated: 13-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Moiz Steel Mill)

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	2.624	8	0.991	0.79	0.771	25.64	34.76	71570	73340	97040	99430	1.30	8.0	16.3	
2	2.650	8	0.996	0.79	0.779	25.38	34.05	70860	71860	95050	96390	1.30	8.0	16.3	
3	1.476	6	0.743	0.44	0.434	13.46	18.93	67450	68380	94880	96200	1.40	8.0	17.5	
4	1.480	6	0.744	0.44	0.435	13.35	19.08	66940	67710	95650	96750	1.40	8.0	17.5	
5	0.650	4	0.493	0.20	0.191	5.42	8.66	59800	62620	95550	100050	1.30	8.0	16.3	
6	0.653	4	0.494	0.20	0.192	5.47	8.61	60370	62880	94990	98940	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: CONC - 20190513

SOM Lab

Ref: 805(Page-1/1)

Dated: 13-05-2019

Dated: 13-05-2019

Test: Tension Test & Bend 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	0.660	4	0.497	0.20	0.194	6.54	8.36	72170	74400	92180	95030	1.10	8.0	13.8	
2	0.671	4	0.501	0.20	0.197	6.63	8.84	73070	74180	97460	98940	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Shamshad Hussain
 Manager Project, Noor Durrani & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: J/0534/017

SOM Lab Ref: 809(Page-2/2)

Dated: 13-05-2019

Dated: 13-05-2019

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	1.499	6	0.749	0.44	0.441	12.92	18.73	64740	64590	93860	93650	1.20	8.0	15.0	
2	0.655	4	0.494	0.20	0.192	5.78	8.63	63740	66390	95210	99180	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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