

Abdul Rasheed

Test Performed By:

Dr. /Engr.

Nauman Khurram

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

Client Reference: USD/ASE/03

Dated: 03-05-2019

SOM Lab Ref: CED/SOM/758(Page-1/1)

Dated: 03-05-2019

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	3.828	25	24.93	491	488	267.70	336.00	545	549	684	689	35.0	200	17.5	
2	3.790	25	24.79	491	483	261.00	329.20	532	541	671	682	35.0	200	17.5	
3	2.446	20	19.92	314	312	159.20	206.70	507	511	658	664	37.5	200	18.8	
4	2.457	20	19.96	314	313	160.50	213.20	511	513	679	682	25.0	200	12.5	
5	1.485	16	15.52	201	189	104.70	139.00	521	554	691	735	30.0	200	15.0	
6	1.494	16	15.57	201	190	103.70	138.20	516	545	687	727	25.0	200	12.5	
7	0.981	12	12.61	113	125	58.70	95.20	519	470	842	762	32.5	200	16.3	
8	0.981	12	12.61	113	125	60.00	92.20	531	481	815	738	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

Nauman
Khurram

By Dir MTL, Infra Dew Works at Sector -R, Pkg - 1, DHA Ph-IX - (M/S DHA C - Coy)

Client Reference: 408/241/E/Lab/549/4279

SOM Lab

Ref: 751(Page-1/1)

Dated: 02-05-2019

Dated: 03-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Saeed Kasur 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	0.665	4	0.498	0.20	0.195	5.78	9.07	63740	65370	100050	102610	1.20	8.0	15.0	
2	0.661	4	0.497	0.20	0.194	5.63	8.97	62050	63970	98920	101980	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

Engr. Muhammad Abdullah
Assistant Engineer, B & W Department, U. E. T. Lahore

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

Client Reference: B & W/AEN/915

SOM Lab Ref: 753 (Page-1/1)

Dated: 03-05-2019

Dated: 03-05-2019

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	1.517	6	0.754	0.44	0.446	18.09	22.58	90690	89470	113180	111650	1.20	8.0	15.0	
2	1.512	6	0.752	0.44	0.444	18.06	22.34	90540	89730	112000	110990	1.00	8.0	12.5	
3	0.729	4	0.522	0.20	0.214	7.21	9.19	79470	74280	101390	94760	1.30	8.0	16.3	
4	0.716	4	0.517	0.20	0.210	7.24	9.30	79810	76010	102520	97640	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-
Only Six Samples Received and Tested

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

Engr. Shahzad Munir
Resident Engineer, G 3 Engineering Consultants (Pvt) Ltd. Lahore

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

Client Reference: G3/224/RE-8

SOM Lab

Ref: 752-(Page-1/1)

Dated: 03-05-2019

Dated: 03-05-2019

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	2.683	8	1.002	0.79	0.788	23.67	32.59	66080	66250	90980	91210	1.30	8.0	16.3	
2	2.638	8	0.993	0.79	0.775	24.38	35.34	68070	69390	98660	100570	1.20	8.0	15.0	
3	2.644	8	0.995	0.79	0.777	25.28	38.79	70580	71760	108280	110090	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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Dy Dir MTL, Const of Mosque at Sector -S, DHA Ph-VIII - (M/S Innovative)

SOM Lab

Client Reference: 408/241/E/Lab/555

Ref:

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Dated: 03-05-2019

Dated:

03-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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	2.605	8	0.988	0.79	0.766	25.94	36.60	72430	74700	102170	105370	1.40	8.0	17.5	
2	2.597	8	0.986	0.79	0.763	25.86	36.82	72200	74750	102790	106430	1.50	8.0	18.8	
3	1.492	6	0.747	0.44	0.438	12.49	18.20	62590	62880	91210	91620	1.60	8.0	20.0	
4	1.537	6	0.759	0.44	0.452	12.59	18.62	63100	61430	93350	90870	1.50	8.0	18.8	
5	0.678	4	0.503	0.20	0.199	6.01	8.94	66320	66660	98580	99080	1.30	8.0	16.3	
6	0.665	4	0.498	0.20	0.195	6.09	9.12	67110	68830	100610	103190	1.30	8.0	16.3	
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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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Dy Dir MTL, Const of Mosque , Sector -T, DHA Ph-VIII - (M/S Siddique Sons)

SOM Lab

Client Reference: 408/241/E/Lab/554/14

Ref:

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Dated: 03-05-2019

Dated:

03-05-2019

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	2.674	8	1.000	0.79	0.786	26.50	34.83	73990	74370	97240	97740	1.20	8.0	15.0	
2	2.637	8	0.993	0.79	0.775	26.37	34.53	73620	75050	96390	98250	1.30	8.0	16.3	
3	1.470	6	0.742	0.44	0.432	16.62	19.88	83290	84830	99640	101480	1.10	8.0	13.8	
4	1.462	6	0.740	0.44	0.430	16.51	19.85	82780	84700	99480	101800	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 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