

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

Test Performed By: Dr. /Engr. Numan Khurram

Client Reference: USD/ASE/13  
 SOM Lab Ref: CED/SOM/479(Page-1/1)

Dated: 18-03-2019  
 Dated: 19-03-2019

Test: Tension Test & Bend Test  
 Sample Type: M S Deformed Bar(AFCO 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.424	20	19.84	314	309	172.50	220.70	549	559	703	715	25.0	200	12.5	
2	2.457	20	19.96	314	313	178.20	222.50	567	570	708	711	22.5	200	11.3	
3	0.855	12	11.78	113	109	65.50	78.20	579	602	691	719	17.5	200	8.8	
4	0.854	12	11.77	113	109	65.70	79.70	581	604	705	733	22.5	200	11.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
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](http://www.uet-civil.edu.pk)

Muhammad Tahir Nazeer  
Civil Engineer, US & Dynamo Mills (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Numan Khurram

Client Reference: TEST/USDY/19/01  
SOM Lab Ref: CED/SOM/480(Page-1/1)  
Test: Tension Test & Bend Test  
Sample Type: Deformed Bar (FF Steel)

Dated: 19-03-2019  
Dated: 19-03-2019  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.855	25	25.00	491	491	250.50	325.00	510	511	662	662	30.0	200	15.0	
2	3.855	25	25.01	491	491	250.70	327.50	511	511	667	667	35.0	200	17.5	
3	2.393	20	19.70	314	305	161.50	217.50	514	530	692	714	30.0	200	15.0	
4	2.399	20	19.73	314	306	159.00	218.50	506	521	696	716	32.5	200	16.3	
5	1.524	16	15.72	201	194	105.70	136.00	526	545	676	701	30.0	200	15.0	
6	1.545	16	15.83	201	197	103.20	135.00	513	525	671	686	27.5	200	13.8	
7	0.872	12	11.89	113	111	62.50	79.70	553	563	705	718	30.0	200	15.0	
8	0.866	12	11.85	113	110	62.70	79.70	554	569	705	723	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Twelve Samples Received and Tested</b>
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](http://www.uet-civil.edu.pk)

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Bilal A Khokhar

Dy Dir MTL, Const of Bdry Wall IVY Green Sector - Z, DHA PH -VIII - (M/S Compliance Engrs)

Client Reference: 408/241/E/Lab/487/04

SOM Lab

Ref: 477(Page-1/1)

Dated: 18-03-2019

Dated: 19-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Kamran 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.994	5	0.610	0.31	0.292	10.16	13.71	72310	76760	97540	103560	1.10	8.0	13.8	
2	0.994	5	0.610	0.31	0.292	9.70	12.86	69040	73300	91520	97170	1.10	8.0	13.8	
3	0.652	4	0.494	0.20	0.192	6.03	8.77	66550	69320	96670	100700	1.30	8.0	16.3	
4	0.645	4	0.492	0.20	0.190	6.01	8.69	66320	69810	95770	100810	1.30	8.0	16.3	
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**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

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Test Performed By: Dr. /Engr. Numan Khurram

Dy Dir MTL, Const. of Commercial Plaza # 58, Sector -MB, DHA Ph-VI (M/S Iftikhar & Coy)

Client Reference: 408/241/E/Lab/483

SOM Lab Ref: 478(Page-1/1)

Dated: 13-03-2019

Dated: 19-03-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran & Amreli 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.559	8	0.979	0.79	0.752	25.91	34.48	72340	76000	96250	101110	1.40	8.0	17.5	
2	2.554	8	0.978	0.79	0.751	26.76	35.63	74700	78580	99460	104630	1.20	8.0	15.0	
3	1.459	6	0.739	0.44	0.429	13.05	19.01	65400	67080	95290	97740	1.30	8.0	16.3	
4	1.497	6	0.748	0.44	0.440	13.00	18.91	65150	65150	94780	94780	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Abid Sultan  
Admin Manager, Variant, 25-t-Gulberg- 2, Lahore

Test Performed By: Dr. /Engr. Numan Khurram

Client Reference: VA/23/113

SOM Lab 481(Page-  
Ref: 1/1)

Dated: 19-03-2019

Dated: 19-03-2019

Test: Tension & 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.584	8	0.983	0.79	0.759	26.66	33.25	74420	77460	92830	96620	1.30	8.0	16.3	
2	2.597	8	0.986	0.79	0.763	27.47	33.56	76700	79410	93680	97000	1.40	8.0	17.5	
3	1.485	6	0.745	0.44	0.436	16.13	20.39	80830	81580	102190	103130	1.30	8.0	16.3	
4	1.486	6	0.746	0.44	0.437	15.92	20.20	79810	80360	101270	101970	1.20	8.0	15.0	
5	0.653	4	0.494	0.20	0.192	6.37	8.28	70260	73190	91280	95080	1.30	8.0	16.3	
6	0.650	4	0.493	0.20	0.191	6.22	8.00	68570	71800	88240	92400	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Nine Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

M HINAN CHAUDHRY

Test Performed By:

Dr. /Engr.

Numan Khurram

Site Engineer, CTE (Pvt) Ltd. Lahore (Project: Flag Pole Consutruct at DHA Bahawalpur

Client Reference: Consted/10032

SOM Lab

484(Page-

Ref:

1/1)

Dated: 19-03-2019

Dated:

19-03-2019

Test: Tension 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.679	8	1.001	0.79	0.787	28.08	35.63	78400	78700	99460	99840	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only One Sample Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S Asad Ali  
Gillani

By Dir MTL, Const of Mosque , Sector -T, DHA Ph-VIII - (M/S Siddique Sons Constr Co.)

SOM Lab

Client Reference: 408/241/E/Lab/488/03

Ref: 485(Page-1/1)

Dated: 18-03-2019

Dated: 19-03-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.675	8	1.000	0.79	0.786	22.19	31.75	61960	62270	88650	89100	1.90	8.0	23.8	
2	2.671	8	1.000	0.79	0.785	21.78	31.88	60820	61200	88990	89560	1.70	8.0	21.3	
3	1.540	6	0.759	0.44	0.453	17.28	20.80	86610	84120	104230	101240	1.30	8.0	16.3	
4	1.547	6	0.761	0.44	0.455	17.74	20.92	88910	85980	104850	101390	1.00	8.0	12.5	
5	0.660	4	0.497	0.20	0.194	6.12	9.04	67450	69530	99710	102790	1.10	8.0	13.8	
6	0.664	4	0.498	0.20	0.195	6.22	9.17	68570	70330	101170	103760	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Nine Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Arshad Mehmood

Project Director, Depac(Const: Dr Maqbool Ahmad Block King Edward Medical University (KEMU) Lahore)

Test Performed By:

Dr. /Engr. M Rizwan Riaz

Client Reference: T-14/03/18

SOM Lab Ref: 486 (Page-1/1)

Dated: 19-03-2019

Dated: 19-03-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.601	4	0.475	0.20	0.177	5.96	8.10	65760	74310	89370	100980	1.00	8.0	12.5	
2	0.637	4	0.488	0.20	0.187	5.91	7.56	65200	69730	83410	89210	1.00	8.0	12.5	
3	0.615	4	0.480	0.20	0.181	6.24	8.18	68800	76020	90150	99620	1.10	8.0	13.8	
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Witnessed By: Ahmad Hassan

**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)