

Muhammad Riaz  
Resident Engineer, Rumanza Golf Course, DHA, Multan

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** ACES-DHAM-RGC-MY - 12

**Dated:** 25-08-2020

**SOM Lab Ref:** CED/SOM/2879 (Page-1/1)

**Dated:** 26-08-2020

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar(AF 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.838	25	24.95	491	489	233.00	333.00	475	477	678	681	37.5	200	18.8	
2	3.872	25	25.06	491	493	229.70	331.00	468	466	674	672	35.0	200	17.5	
3	2.161	19	18.72	284	275	129.70	176.70	457	472	623	642	25.0	200	12.5	
4	2.176	19	18.79	284	277	127.50	175.70	450	461	620	634	25.0	200	12.5	
5	1.015	12	12.83	113	129	60.50	82.70	535	469	731	640	27.5	200	13.8	
6	1.011	12	12.81	113	129	60.70	83.20	537	472	736	646	27.5	200	13.8	
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**BEND TEST:**

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

Acc-Prime JV  
Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 384-A  
SOM Lab Ref: CED/SOM/2882 (Page-1/1)  
Test: Tension Test  
Sample Type: J - Bolt

Dated: 26-08-2020  
Dated: 26-08-2020  
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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.035	25	25.58	491	514	175.50	269.70	358	342	549	525	50.0	200	25.0	
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**BEND TEST:**

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

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

Shahzeb Hameed  
Ittehad Chemicals Ltd., Lahore

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

Client Reference: ICL/SCM/2020/Aug/005

SOM Lab

Ref: 2788(Page-1/1)

Dated: 28.07-2020

Dated: 28-07-2020

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.502	6	0.749	0.44	0.441	12.86	18.86	64480	64340	94530	94310	1.30	8.0	16.3	
2	1.490	6	0.747	0.44	0.438	12.44	18.71	62340	62620	93760	94190	1.20	8.0	15.0	
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**BEND TEST:**

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

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

Dy Dir MTL, Infra Development Works, DHA Ph -IX Prism, (Pkg-II, III & IV) - (M/S NLC)

Client Reference: 408/241/E/Lab/953/3373

SOM Lab

Ref: 2789(Page-1/1)

Dated: 27-07-2020

Dated: 28-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar ( S. J. 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	0.666	4	0.500	0.20	0.196	6.07	8.61	66890	68250	94990	96930	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	5.98	8.58	65990	67330	94650	96580	1.20	8.0	15.0	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://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/20200728

SOM Lab

Ref: 2791(Page-1/1)

Dated: 28.07-2020

Dated: 28-07-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar( AF 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	2.567	8	0.980	0.79	0.754	23.11	30.43	64520	67600	84950	89000	1.20	8.0	15.0	
2	2.514	8	0.970	0.79	0.739	22.10	29.82	61700	65960	83240	88990	1.30	8.0	16.3	
3	2.526	8	0.972	0.79	0.742	23.09	30.19	64460	68630	84290	89750	1.20	8.0	15.0	
4	1.462	6	0.740	0.44	0.430	15.41	19.93	77260	79050	99890	102210	1.00	8.0	12.5	
5	1.450	6	0.736	0.44	0.426	16.18	20.36	81090	83750	102040	105390	1.10	8.0	13.8	
6	1.457	6	0.738	0.44	0.428	12.81	18.42	64230	66030	92330	94920	1.10	8.0	13.8	
7	0.653	4	0.494	0.20	0.192	6.42	8.72	70820	73770	96110	100120	1.00	8.0	12.5	
8	0.672	4	0.501	0.20	0.197	6.90	8.56	76100	77260	94420	95860	1.00	8.0	12.5	
9	0.662	4	0.498	0.20	0.195	7.03	8.87	77560	79550	97800	100300	1.00	8.0	12.5	
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**BEND TEST:**

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

Municipal Officer (I&S)  
Municipal Corporation Ferozewala

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

**Client Reference:** MC/F/20/325

**SOM Lab**

**Ref:** 2796 (Page-1/1)

**Dated:** 06-06-2020

**Dated:** 28-07-2020

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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	0.559	4	0.457	0.20	0.164	5.25	6.37	57890	70600	70260	85680	1.10	8.0	13.8	
2	0.568	4	0.461	0.20	0.167	4.00	5.98	44070	52770	65990	79020	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Z. H. Kazmi  
Principal Architect, For Z. H. Kazmi & Associates, Lahore

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** nil

**SOM Lab**

**Ref:** 2797(Page-1/1)

**Dated:** 28-07-2020

**Dated:** 29-07-2020

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	28.44	34.37	79400	81460	95960	98450	1.00	8.0	12.5	
2	1.658	6	0.787	0.44	0.487	16.64	21.15	83390	75340	106020	95790	1.00	8.0	12.5	
3	0.667	4	0.500	0.20	0.196	6.14	8.92	67670	69050	98360	100370	1.10	8.0	13.8	
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**BEND TEST:**

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

Z. H. Kazmi  
Principal Architect, For Z. H. Kazmi & Associates, Lahore

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** nil

**SOM Lab**

**Ref:** 2797(Page-1/1)

**Dated:** 28-07-2020

**Dated:** 29-07-2020

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	28.44	34.37	79400	81460	95960	98450	1.00	8.0	12.5	
2	1.658	6	0.787	0.44	0.487	16.64	21.15	83390	75340	106020	95790	1.00	8.0	12.5	
3	0.667	4	0.500	0.20	0.196	6.14	8.92	67670	69050	98360	100370	1.10	8.0	13.8	
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**BEND TEST:**

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



Abdul Ghafar  
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ST/UET/20200730  
Dated: 30.07-2020  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 2800(Page-1/1)  
Dated: 30-07-2020  
Test Specification: ASTM-A-615  
Sample Type: Deformed Bar( AF 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	0.664	4	0.498	0.20	0.195	6.49	8.12	71610	73440	89590	91890	0.90	8.0	11.3	
2	0.658	4	0.496	0.20	0.193	6.65	8.43	73290	75950	92960	96340	1.00	8.0	12.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

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

Abdul Ghafar  
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ST/UET/20200730  
Dated: 30.07-2020  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 2800(Page-2/2)  
Dated: 30-07-2020  
Test Specification: ASTM-A-615  
Sample Type: Deformed Bar( AF 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	2.527	8	0.973	0.79	0.743	22.17	30.33	61900	65810	84660	90020	1.30	8.0	16.3	
2	2.533	8	0.973	0.79	0.744	23.26	30.50	64940	68960	85150	90410	1.20	8.0	15.0	
3	2.576	8	0.982	0.79	0.757	23.70	31.06	66170	69050	86710	90490	1.20	8.0	15.0	
4	2.580	8	0.982	0.79	0.758	23.36	30.96	65230	67980	86430	90080	1.10	8.0	13.8	
5	2.621	8	0.990	0.79	0.770	24.41	31.98	68160	69930	89270	91590	1.20	8.0	15.0	
6	2.524	8	0.972	0.79	0.742	22.17	29.89	61900	65900	83440	88840	1.30	8.0	16.3	
7	1.492	6	0.747	0.44	0.438	11.82	17.66	59270	59540	88500	88900	1.20	8.0	15.0	
8	1.476	6	0.743	0.44	0.434	11.98	17.60	60040	60870	88240	89460	1.10	8.0	13.8	
9	1.469	6	0.742	0.44	0.432	12.30	18.09	61670	62820	90690	92370	1.30	8.0	16.3	
10	1.441	6	0.734	0.44	0.423	13.93	20.08	69850	72660	100660	104700	1.20	8.0	15.0	

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Ten Samples Received and Tested

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. Nauman Khurram

Dy Dir MTL, Infra Development Works, DHA Ph -IX Prism (Pkg-II, III & IV) - (M/S NLC)

**Client Reference:** 408/241/E/Lab/955/3422

**SOM Lab**

**Ref:** 2801(Page-1/1)

**Dated:** 29-08-2020

**Dated:** 30-07-2020

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar ( S. J. 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	1.494	6	0.748	0.44	0.439	14.02	19.83	70260	70420	99380	99610	1.10	8.0	13.8	
2	1.472	6	0.743	0.44	0.433	14.60	19.59	73170	74350	98210	99790	0.90	8.0	11.3	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://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/ 20200825

SOM Lab

Ref: 2878(Page-1/1)

Dated: 25-08-2020

Dated: 26-08-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	2.592	8	0.985	0.79	0.762	23.72	33.49	66220	68660	93490	96920	1.30	8.0	16.3	
2	2.587	8	0.984	0.79	0.760	23.19	33.49	64740	67300	93490	97180	1.20	8.0	15.0	
3	2.621	8	0.990	0.79	0.770	23.41	33.05	65370	67070	92260	94660	1.10	8.0	13.8	
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**BEND TEST:**

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

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

Engr Naveed Anjum  
Project Manager Al-Taqwa Shopping Mall, Islamabad

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** AT/S/P/10

**SOM Lab**

**Ref:** 2880 (Page-1/2)

**Dated:** 26-08-2020

**Dated:** 26-08-2020

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.509	8	0.969	0.79	0.737	27.08	34.12	75610	81050	95250	102100	1.30	8.0	16.3	
2	1.474	6	0.743	0.44	0.433	17.69	20.31	88650	90080	101780	103430	1.20	8.0	15.0	
3	0.663	4	0.498	0.20	0.195	7.39	8.92	81500	83590	98360	100880	1.00	8.0	12.5	
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**BEND TEST:**

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

Engr Naveed Anjum  
Project Manager Al-Taqwa Shopping Mall, Islamabad

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: AT/S/P/10

SOM Lab

Ref: 2880 (Page-2/2)

Dated: 26-08-2020

Dated: 26-08-2020

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.539	8	0.975	0.79	0.746	19.32	31.55	53930	57110	88080	93270	1.10	8.0	13.8	
2	1.459	6	0.739	0.44	0.429	12.51	19.93	62700	64300	99890	102450	1.00	8.0	12.5	
3	0.665	4	0.498	0.20	0.195	5.66	7.92	62390	63990	87340	89580	1.10	8.0	13.8	
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**BEND TEST:**

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