

Mirza Sulman Baig  
Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab 5744 (Page-

Ref: 1/1)

Dated: 26-01-2022

Dated: 26-01-2022

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	2.629	8	0.992	0.79	0.773	26.88	35.88	75050	76700	100170	102380	1.30	8.0	16.3	
2	2.621	8	0.990	0.79	0.770	27.08	36.00	75610	77580	100510	103130	1.30	8.0	16.3	
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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)

Maj Adnan Khalid (R)

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

Dy Dir MTL DHA Lhr,(External Electification Sys (U/G) Of IVY Green Sec-Z DHA Ph-VIII (M/s NLC))

Client Reference: 408/241/32/Lab/23/64

SOM Lab 5746 (Page-

Ref: 1/1)

Dated: 21-01-2022

Dated: 26-01-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AFCO 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	1.500	6	0.749	0.44	0.441	17.86	22.24	89520	89320	111490	111240	1.10	8.0	13.8	
2	1.495	6	0.748	0.44	0.439	17.45	22.17	87480	87680	111130	111390	1.00	8.0	12.5	
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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)

Col Tajamal Hussain Riaz ®  
RE CSM ACE Limited.Multan

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

**Client Reference:** ACE/RE/CSM/2021/0025

**SOM Lab** 5747 (Page-

**Ref:** 1/1)

**Dated:** 25-01-2022

**Dated:** 26-01-2022

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Union 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	2.557	8	0.978	0.79	0.751	25.54	33.20	71290	74990	92690	97500	1.00	8.0	12.5	
2	2.545	8	0.976	0.79	0.748	25.64	33.30	71570	75590	92970	98190	1.20	8.0	15.0	
3	1.453	6	0.737	0.44	0.427	15.29	19.67	76640	78980	98610	101620	1.20	8.0	15.0	
4	1.514	6	0.753	0.44	0.445	15.39	19.69	77160	76290	98720	97610	1.20	8.0	15.0	
5	0.662	4	0.498	0.20	0.195	6.73	8.21	74190	76090	90490	92810	1.20	8.0	15.0	
6	0.663	4	0.498	0.20	0.195	6.73	8.26	74190	76090	91050	93390	1.10	8.0	13.8	
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**Witnessed By:** Ghulam Rasool (ACE-MI)

**BEND TEST:**

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

Majeed Associates

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Engrs & Contractors.(Project: Allied Bank Warehouse Pakpatan Rd Sahiwal)

Client Reference: Nil

SOM Lab

5748 (Page-

Ref:

1/1)

Dated: 25-01-2022

Dated:

26-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AFCO 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	2.502	8	0.967	0.79	0.735	24.52	33.79	68440	73560	94340	101400	1.20	8.0	15.0	
2	2.496	8	0.967	0.79	0.734	24.54	33.56	68500	73730	93680	100830	1.40	8.0	17.5	
3	1.490	6	0.747	0.44	0.438	17.55	21.89	87990	88390	109700	110200	1.10	8.0	13.8	
4	1.488	6	0.746	0.44	0.437	17.53	21.99	87880	88490	110210	110970	1.20	8.0	15.0	
5	0.652	4	0.494	0.20	0.192	6.14	8.02	67670	70490	88470	92150	1.20	8.0	15.0	
6	0.650	4	0.493	0.20	0.191	6.39	8.18	70480	73800	90150	94400	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 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](http://www.uet-civil.edu.pk)

Maj Adnan Khalid (R)

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

Dy Dir MTL DHA Lhr,(Const. Of 18 Green Apartment Complex DRGCC DHA Ph-VI (M/s Construct)

Client Reference: 408/241/32/Lab/26/186

SOM Lab 5749 (Page-

Ref: 1/1)

Dated: 26-01-2022

Dated: 26-01-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.700	8	1.005	0.79	0.793	25.23	34.17	70440	70170	95390	95030	1.40	8.0	17.5	
2	2.615	8	0.989	0.79	0.768	24.11	33.66	67310	69230	93970	96660	1.50	8.0	18.8	
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**BEND TEST:**

# 8	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)

Muhammad Danish

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

Opal Deever Developers(Const of Zameen Opal,Plot No.16,Sec.-A,Land Breeze Housing Society,Lhr)

Client Reference: ZD/ZO/L/042

SOM Lab 5750 (Page-

Ref: 1/1)

Dated: 26-01-2022

Dated: 26-01-2022

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	0.590	4	0.469	0.20	0.173	6.54	8.15	72170	83430	89930	103960	1.10	8.0	13.8	
2	0.601	4	0.475	0.20	0.177	6.32	7.97	69700	78750	87910	99330	1.00	8.0	12.5	
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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)

Muhammad Danish

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

Opal Deever Developers(Const of Zameen Opal,Plot No.16,Sec.-A,Land Breeze Housing Society,Lhr)

Client Reference: ZD/ZO/L/041

SOM Lab 5751 (Page-

Ref: 1/1)

Dated: 26-01-2022

Dated: 26-01-2022

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	1.483	6	0.745	0.44	0.436	14.24	18.17	71380	72040	91050	91890	1.20	8.0	15.0	
2	1.523	6	0.755	0.44	0.448	14.68	20.18	73580	72270	101170	99360	1.30	8.0	16.3	
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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)

Assistant Project Director,

**Test Performed By:**

Dr. /Engr.

S Asad Ali Gillani

PMU-SBP National Hockey Stadium,Lahore.(Provision Of Swimming Pool At GCU Ground Lhr)

**Client Reference:** APD/PMU/SBP/LHR/22/208

**SOM Lab**

5752 (Page-

**Ref:**

1/1)

**Dated:** 10-01-2022

**Dated:**

26-01-2022

**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	1.476	6	0.743	0.44	0.434	12.41	18.30	62190	63040	91720	92980	1.70	8.0	21.3	
2	0.650	4	0.493	0.20	0.191	6.42	8.74	70820	74160	96340	100870	1.10	8.0	13.8	
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**BEND TEST:**

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

Maj Adnan Khalid (R)

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Dy Dir MTL DHA Lhr,(Infra Structure Dev Works Of Sec-IV Q-Block,DHA Ph-XI Rehbar (M/s DHA-C))

Client Reference: 408/241/32/Lab/27/14

SOM Lab 5753 (Page-

Ref: 1/1)

Dated: 26-01-2022

Dated: 26-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Moiz 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	2.689	8	1.003	0.79	0.790	23.01	34.10	64230	64230	95190	95190	1.50	8.0	18.8	
2	2.689	8	1.003	0.79	0.790	24.18	34.78	67500	67500	97100	97100	1.50	8.0	18.8	
3	2.677	8	1.001	0.79	0.787	23.26	34.53	64940	65190	96390	96760	1.70	8.0	21.3	
4	2.699	8	1.005	0.79	0.793	24.26	35.95	67730	67480	100370	99990	1.80	8.0	22.5	
5	1.509	6	0.751	0.44	0.443	13.53	19.03	67810	67350	95400	94750	1.70	8.0	21.3	
6	1.488	6	0.746	0.44	0.437	13.93	19.13	69850	70330	95910	96560	1.40	8.0	17.5	
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**BEND TEST:**

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

Wasiq Akram

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Ittefaq Building Solutions.(Master Textile Mills Ltd.(Extension Of Spinning Unit M-7)

Client Reference: IBS/M-7/Steel/25-01-2022

SOM Lab

5755 (Page-

Ref:

1/4)

Dated: 25-01-2022

Dated:

26-01-2022

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	2.593	8	0.985	0.79	0.762	25.28	35.65	70580	73170	99520	103180	1.30	8.0	16.3	
2	2.594	8	0.985	0.79	0.762	25.23	35.34	70440	73020	98660	102290	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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)

Wasiq Akram

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Ittefaq Building Solutions.(Master Textile Mills Ltd.(Extension Of Spinning Unit M-7)

Client Reference: IBS/M-7/Steel/25-01-2022

SOM Lab

5755 (Page-

Ref:

2/4)

Dated: 25-01-2022

Dated:

26-01-2022

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	2.608	8	0.988	0.79	0.766	25.43	35.65	71000	73230	99520	102640	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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)

Wasiq Akram

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Ittefaq Building Solutions.(Master Textile Mills Ltd.(Extension Of Spinning Unit M-7)

Client Reference: IBS/M-7/Steel/25-01-2022

SOM Lab

5755 (Page-

Ref:

3/4)

Dated: 25-01-2022

Dated:

26-01-2022

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	2.591	8	0.984	0.79	0.761	25.20	35.42	70350	73030	98890	102660	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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)

Wasiq Akram

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Ittefaq Building Solutions.(Master Textile Mills Ltd.(Extension Of Spinning Unit M-7)

Client Reference: IBS/M-7/Steel/25-01-2022

SOM Lab

5755 (Page-

Ref:

4/4)

Dated: 25-01-2022

Dated:

26-01-2022

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	0.665	4	0.498	0.20	0.195	6.68	8.92	73630	75520	98360	100880	1.20	8.0	15.0	
2	0.663	4	0.498	0.20	0.195	6.68	8.94	73630	75520	98580	101110	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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)

Mansoor Ramzan Baloch  
Director Ramzan & Sons Pvt.Ltd.

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

Client Reference: RSL/UET/Steel Bars/190

SOM Lab 5756 (Page-

Ref: 1/1)

Dated: 18-01-2022

Dated: 26-01-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (YRMCT Imported)

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	2.568	8	0.980	0.79	0.755	26.32	33.30	73480	76890	92970	97280	1.40	8.0	17.5	
2	2.574	8	0.981	0.79	0.756	26.32	33.33	73480	76790	93060	97240	1.50	8.0	18.8	
3	1.548	6	0.761	0.44	0.455	15.31	19.32	76750	74220	96830	93630	1.40	8.0	17.5	
4	1.543	6	0.759	0.44	0.453	15.60	19.88	78180	75930	99640	96780	1.40	8.0	17.5	
5	1.205	5	0.671	0.31	0.354	13.78	16.77	98050	85860	119300	104470	1.00	8.0	12.5	
6	1.207	5	0.672	0.31	0.355	13.68	16.84	97330	84990	119810	104620	1.10	8.0	13.8	
7	0.588	4	0.469	0.20	0.173	6.17	7.51	68010	78620	82850	95780	1.20	8.0	15.0	
8	0.590	4	0.469	0.20	0.173	6.22	7.56	68570	79270	83410	96430	1.30	8.0	16.3	
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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	
# 5	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)

Barkallah Tahir, PE  
 RE Sitara Heights.(Sitara Icon Tower Faislabad)

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

Client Reference: SHPL/ICON/FSD/01

SOM Lab 5757(Page-1/1)  
 Ref: 1/1

Dated: 26-01-2022

Dated: 26-01-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	1.480	6	0.744	0.44	0.435	15.44	19.98	77410	78300	100150	101300	1.40	8.0	17.5	
2	1.479	6	0.744	0.44	0.435	15.34	18.93	76900	77780	94880	95980	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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)

Muhammad Imran Khan  
ME ECSP,(Reconstruction Of PIPAL House A-Block Lahore)

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

**Client Reference:** 343/ECSP/PH/ME/02

**SOM Lab** 5758 (Page-

**Ref:** 1/1)

**Dated:** 26-01-2022

**Dated:** 26-01-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.620	8	0.990	0.79	0.770	25.66	35.52	71630	73490	99180	101750	1.30	8.0	16.3	
2	2.612	8	0.989	0.79	0.768	25.05	35.24	69920	71930	98380	101200	1.30	8.0	16.3	
3	1.472	6	0.743	0.44	0.433	13.25	18.57	66430	67500	93100	94600	1.30	8.0	16.3	
4	1.473	6	0.743	0.44	0.433	13.15	18.52	65910	66980	92840	94340	1.40	8.0	17.5	
5	0.653	4	0.494	0.20	0.192	6.17	8.56	68010	70840	94420	98360	1.30	8.0	16.3	
6	0.661	4	0.497	0.20	0.194	6.29	8.63	69360	71500	95210	98160	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>  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](http://www.uet-civil.edu.pk)

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

Maj Adnan Khalid ®

Dy Dir MTL.

DHA,Lahore

Testing of Anchor Bolts-External Electification System (U/G) of IVY Green Sector-Z DHA

Ph-VIII (M/S NLC)

**Client Reference:** 408/241/32/Lab/24/66

**Dated:** 21-01-2022

**SOM Lab Ref:** CED/SOM/5745(Page-1/1)

**Dated:** 26-01-2022

**Test:** Tension Test

**Test Specification:** ASTM-F -1554

**Sample Type:** Anchor Bolt (Y-Type)

**Gauge Length:** 50 mm

S.No.	Dia	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
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	mm	mm <sup>2</sup>	kN	kN	MPa	MPa	mm	mm	%		
1	12	113	-	89.20	--	789	12.5	50	25.0	39.9	
2	12	113	-	92.70	--	820	12.5	50	25.0	43.7	
3	12	113	-	88.50	--	783	8.8	50	17.5	42.4	
4	12	113	--	88.20	--	780	7.5	50	15.0	43.7	
5	12	113	--	89.50	--	791	7.5	50	15.0	39.9	
6	12	113	--	88.50	--	783	8.8	50	17.5	43.7	
							<b>Note:-</b>				
							Only Six Samples Received and Tested				
	Note: Please always confirm the results of above report on web <a href="http://www.uet-civil.edu.pk">www.uet-civil.edu.pk</a>										