

Osmani & Compny & CO. RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Muridke Greenfield.(Const Of Greenfield Aerodrome For General Aviation Activities At Muridke)

Client Reference: OCL/CAA/MAD-RE/4-2K22/035

Dated: 09-04-2022

SOM Lab Ref: CED/SOM/154(Page-1/1)

Dated: 13-04-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Naveena 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	0.879	12	11.94	113	112	66.50	79.00	588	594	699	706	25.0	200	12.5	
2	0.879	12	11.94	113	112	67.20	79.20	594	601	700	708	25.0	200	12.5	
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**BEND TEST:**

12mm	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)

Blessed Textiles Limited

Test Performed By:

Dr. /Engr.

Wasim Abbas

Sheikhupura.(Project Blessed Textile Mills (Spinning) Unit-04,Ferozewattoan)

Client Reference: Nil

Dated: 13-04-2022

SOM Lab Ref: CED/SOM/158(Page-1/1)

Dated: 13-04-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.816	25	24.88	491	486	230.70	311.20	470	475	634	641	32.5	200	16.3	
2	3.856	25	25.01	491	491	224.70	306.70	458	458	625	625	32.5	200	16.3	
3	0.901	12	12.09	113	115	56.50	77.20	500	493	683	673	25.0	200	12.5	
4	0.895	12	12.05	113	114	59.50	75.00	526	522	663	658	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 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](http://www.uet-civil.edu.pk)

Sub Divisional officer,  
 BSD No.9 Lahore.(Const Of BS(18-19) Apartments At Qurban Lines Lhr)

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

**Client Reference:** 689/9th

**SOM Lab**

**Ref:** 155 (Page-1/1)

**Dated:** 22-03-2022

**Dated:** 13-04-2022

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Pakistan 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	2.710	8	1.007	0.79	0.796	25.79	34.58	72000	71460	96530	95800	1.40	8.0	17.5	
2	2.662	8	0.998	0.79	0.782	25.05	33.64	69920	70640	93910	94870	1.50	8.0	18.8	
3	1.491	6	0.747	0.44	0.438	14.27	18.62	71540	71860	93350	93780	1.20	8.0	15.0	
4	1.498	6	0.748	0.44	0.440	16.00	20.46	80220	80220	102550	102550	1.10	8.0	13.8	
5	0.664	4	0.498	0.20	0.195	7.29	9.25	80370	82430	101960	104570	1.10	8.0	13.8	
6	0.703	4	0.513	0.20	0.207	7.34	9.38	80940	78200	103420	99920	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six 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)

Shahzad Javaid Cheema  
 PM Niaz Aebaaz.(Const Of Galleria Residences, Lahore)

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: Nil

SOM Lab

Ref: 156 (Page-1/1)

Dated: 13-04-2022

Dated: 13-04-2022

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	2.630	8	0.992	0.79	0.773	28.82	34.81	80450	82220	97190	99320	1.00	8.0	12.5	
2	2.648	8	0.995	0.79	0.778	28.87	35.17	80590	81840	98180	99700	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 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)

Sajjad Ali Memon

Test Performed By:

Dr. /Engr. Wasim Abbas

RE Pillar & Sons.(Rumanza Golf & Country Club,DHA Multan)

Client Reference: P&S/OTH/GEN/00077

SOM Lab

Ref: 157 (Page-1/1)

Dated: 28-03-2022

Dated: 13-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	2.658	8	0.997	0.79	0.781	22.65	36.41	63240	63960	101650	102820	1.40	8.0	17.5	
2	2.649	8	0.995	0.79	0.778	22.60	36.34	63090	64070	101450	103020	1.50	8.0	18.8	
3	0.669	4	0.501	0.20	0.197	6.07	8.77	66890	67900	96670	98140	1.40	8.0	17.5	
4	0.687	4	0.507	0.20	0.202	6.27	9.02	69130	68450	99480	98500	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 Six 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)

Engr. Naveed Sadiq  
RE Orbit Housing. Lahore. (The Springs Apartment Homes)

**Test Performed By:** Dr. /Engr. Wasim Abbas

**Client Reference:** Nil

**SOM Lab**

**Ref:** 159 (Page-1/1)

**Dated:** 13-04-2022

**Dated:** 13-04-2022

**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	2.661	8	0.998	0.79	0.782	24.74	35.88	69070	69780	100170	101200	1.40	8.0	17.5	
2	2.677	8	1.001	0.79	0.787	24.82	36.06	69300	69560	100660	101040	1.40	8.0	17.5	
3	1.485	6	0.745	0.44	0.436	13.71	18.47	68730	69360	92590	93430	1.50	8.0	18.8	
4	1.486	6	0.746	0.44	0.437	13.66	18.35	68470	68940	91970	92600	1.40	8.0	17.5	
5	0.655	4	0.494	0.20	0.192	6.57	9.33	72510	75530	102860	107140	1.10	8.0	13.8	
6	0.648	4	0.492	0.20	0.190	6.24	8.63	68800	72420	95210	100220	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 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)

Inam UI Haq

Test Performed By: Dr. /Engr. Bilal

RE Metroplan-Asian Jv,Layyah(Establishment Of 200 Bedded Mother & Child Hospital(MCH),Layyah)

Client Reference: Metroplan-Asian Jv-MCH-Layyah-RE-18

SOM Lab

Ref: 160 (Page-1/2)

Dated: 09-04-2022

Dated: 13-04-2022

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	2.659	8	0.997	0.79	0.781	27.22	36.49	75980	76860	101880	103050	1.50	8.0	18.8	
2	2.661	8	0.998	0.79	0.782	23.71	33.28	66200	66870	92920	93870	1.30	8.0	16.3	
3	1.451	6	0.736	0.44	0.426	14.68	20.23	73580	76000	101420	104760	1.40	8.0	17.5	
4	1.464	6	0.740	0.44	0.430	14.98	20.51	75110	76860	102800	105190	1.20	8.0	15.0	
5	0.640	4	0.489	0.20	0.188	7.19	9.09	79250	84310	100270	106670	1.00	8.0	12.5	
6	0.643	4	0.491	0.20	0.189	7.05	8.97	77790	82320	98920	104680	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 Ten Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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)

Khalid Ahmad Khoso

Test Performed By: Dr. /Engr. Bilal

RE Metroplan-Asian Jv,Layyah(Establishment Of 200 Bedded Mother & Child Hospital(MCH),Layyah)

Client Reference: Metroplan-Asian Jv-MCH-Layyah-RE-033

SOM Lab

Ref: 160 (Page-2/2)

Dated: 09-04-2022

Dated: 13-04-2022

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	2.645	8	0.995	0.79	0.777	26.40	36.19	73710	74940	101030	102720	1.40	8.0	17.5	
2	2.649	8	0.995	0.79	0.778	26.32	36.19	73480	74610	101030	102580	1.50	8.0	18.8	
3	1.515	6	0.753	0.44	0.445	15.27	20.41	76540	75680	102290	101140	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 Six 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)



Engr. Tayyab Rasool PM

Test Performed By: Dr. /Engr. Bilal

Renaissance International.(Overhead Water Reservoir (Trust Prime Block) At Lhr Motorway City,Lhr)

Client Reference: QC/22/025

SOM Lab

Ref: 161 (Page-1/1)

Dated: 13-04-2022

Dated: 13-04-2022

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	2.639	8	0.994	0.79	0.776	29.07	36.14	81160	82630	100880	102700	1.40	8.0	17.5	
2	2.642	8	0.994	0.79	0.776	28.09	34.76	78430	79850	97040	98790	1.50	8.0	18.8	
3	1.472	6	0.743	0.44	0.433	15.01	19.11	75210	76430	95800	97350	1.20	8.0	15.0	
4	1.475	6	0.743	0.44	0.433	15.51	19.27	77770	79030	96570	98130	0.90	8.0	11.3	
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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	

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

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

Z.H Kazmi & Associates,(Const Of Boundarywall & Misc Work At ABL New Warehouse Jhang)

**Client Reference:** Nil

**SOM Lab**

**Ref:** 162 (Page-1/1)

**Dated:** 13-04-2022

**Dated:** 13-04-2022

**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	2.708	8	1.007	0.79	0.796	24.92	34.76	69580	69060	97040	96310	1.40	8.0	17.5	
2	2.628	8	0.991	0.79	0.772	29.31	36.97	81820	83730	103220	105620	1.30	8.0	16.3	
3	1.466	6	0.741	0.44	0.431	13.37	19.42	67040	68440	97340	99370	1.20	8.0	15.0	
4	1.468	6	0.741	0.44	0.431	13.56	19.37	67960	69380	97080	99110	1.30	8.0	16.3	
5	0.690	4	0.508	0.20	0.203	6.88	9.25	75880	74760	101960	100450	1.30	8.0	16.3	
6	0.688	4	0.507	0.20	0.202	7.03	9.38	77560	76800	103420	102390	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)

Engr Atif Bashir Ahmad

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

MCQ Sefam (Pvt.) Ltd Lahore.(Ex-Hunble Tex Production Hall Extension Lahore)

Client Reference: Sefam/Hun/Ittefaq/01

SOM Lab

Ref:

163 (Page-1/1)

Dated: 12-04-2022

Dated:

13-04-2022

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	2.655	8	0.997	0.79	0.780	29.71	36.85	82960	84020	102880	104200	1.20	8.0	15.0	
2	1.487	6	0.746	0.44	0.437	16.41	20.39	82260	82830	102190	102890	1.00	8.0	12.5	
3	0.660	4	0.497	0.20	0.194	7.14	9.07	78690	81120	100050	103140	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)

Ramiz Khan

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Building Standards Lahore.(Const. Of Residential Building At Zafar Ali Road,Lahore)

Client Reference: GT/LTR/220413-038

SOM Lab

Ref:

164 (Page-1/1)

Dated: 13-04-2022

Dated:

13-04-2022

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	29.28	36.19	81730	84850	101030	104880	1.10	8.0	13.8	
2	2.593	8	0.985	0.79	0.762	29.15	35.83	81390	84380	100030	103710	1.20	8.0	15.0	
3	2.582	8	0.983	0.79	0.759	29.48	36.09	82300	85660	100740	104860	1.00	8.0	12.5	
4	0.667	4	0.500	0.20	0.196	7.65	9.19	84310	86030	101390	103460	1.00	8.0	12.5	
5	0.670	4	0.501	0.20	0.197	7.85	9.33	86560	87870	102860	104420	1.00	8.0	12.5	
6	0.670	4	0.501	0.20	0.197	7.75	9.19	85430	86730	101390	102940	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six 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. Zeeshan Shahid

Test Performed By:

Dr. /Engr. Bilal

PD Elantra Tech\* Lahore.(Const Of DHA 8 Plot No 223 C)

Client Reference: DHA 8 Plote No 223C

SOM Lab

Ref: 165 (Page-1/1)

Dated: 13-04-2022

Dated: 13-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Model 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	1.496	6	0.748	0.44	0.440	14.70	19.83	73680	73680	99380	99380	1.30	8.0	16.3	
2	1.504	6	0.750	0.44	0.442	15.51	20.61	77770	77420	103310	102850	1.20	8.0	15.0	
3	0.632	4	0.487	0.20	0.186	6.95	9.14	76660	82430	100830	108420	0.90	8.0	11.3	
4	0.625	4	0.484	0.20	0.184	6.34	8.63	69920	76000	95210	103490	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six 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)

Malik Mukhtar Ahmad

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

RE AZ Engg Associates.(Estb Of Mother & Child Block, Teaching Hospital,D.G.Khan)

Client Reference: RE/AZEA/DGK/024

SOM Lab

Ref: 166 (Page-1/1)

Dated: 05-04-2022

Dated: 13-04-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF 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	2.687	8	1.003	0.79	0.790	26.07	36.14	72770	72770	100880	100880	1.20	8.0	15.0	
2	2.778	8	1.019	0.79	0.816	28.34	36.60	79120	76590	102170	98910	1.20	8.0	15.0	
3	1.496	6	0.748	0.44	0.440	13.93	19.13	69850	69850	95910	95910	1.30	8.0	16.3	
4	1.514	6	0.753	0.44	0.445	14.27	19.39	71540	70730	97180	96090	1.40	8.0	17.5	
5	0.642	4	0.491	0.20	0.189	6.83	8.63	75320	79700	95210	100750	1.20	8.0	15.0	
6	0.653	4	0.494	0.20	0.192	6.95	8.79	76660	79860	96900	100930	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**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)