

Sunrays Textile mills Ltd.  
Admin Manager Sunrays Textile Muzaffargarh.

**Test Performed By:** Dr. /Engr. Irfan UI Hasan

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/509(Page-1/1)

**Dated:** 18-06-2022  
**Dated:** 20-06-2022

**Test:** Tension Test & Bend Test  
**Sample Type:** M S Deformed Bar (Mughal 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	3.909	25	25.18	491	498	274.50	341.70	559	552	696	687	30.0	200	15.0	
2	3.916	25	25.20	491	499	265.20	331.20	540	532	675	664	35.0	200	17.5	
3	2.491	20	20.10	314	317	159.30	194.20	507	503	618	613	37.5	200	18.8	
4	2.509	20	20.17	314	320	173.20	215.00	551	542	684	673	32.5	200	16.3	
5	1.559	16	15.90	201	199	111.70	135.70	556	563	675	684	32.5	200	16.3	
6	1.563	16	15.92	201	199	110.20	136.00	548	554	676	684	30.0	200	15.0	
7	0.884	12	11.97	113	113	58.20	72.20	515	517	638	642	30.0	200	15.0	
8	0.887	12	11.99	113	113	57.50	71.20	508	509	630	631	30.0	200	15.0	
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**BEND TEST:**

Sr.# (1-2)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
Sr.# (3-4)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr.# (5-6)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr.# (7-8)	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)

Sunrays Textile mills Ltd.  
Admin Manager Sunrays Textile Muzaffargarh.

**Test Performed By:** Dr. /Engr. Irfan UI Hasan

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/510(Page-1/1)

**Dated:** 18-06-2022  
**Dated:** 20-06-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS 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	1.593	16	16.08	201	203	113.50	139.20	565	560	692	686	32.5	200	16.3	
2	1.592	16	16.07	201	203	112.70	139.20	561	556	692	687	32.5	200	16.3	
3	0.877	12	11.93	113	112	54.50	70.20	482	488	621	629	32.5	200	16.3	
4	0.876	12	11.92	113	112	57.00	74.50	504	512	659	668	27.5	200	13.8	
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Eight Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Sub Divisional Officer,  
 BSD Pattoki.(Const. Of P.H.P Post Ladu Manj Tehsil Pattoki Distt. Kasur)

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

**Client Reference:** 886/P

**SOM Lab** 507 (Page-

**Ref:** 1/1)

**Dated:** 27-05-2022

**Dated:** 20-06-2022

**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	1.575	6	0.768	0.44	0.463	10.67	20.18	53500	50840	101170	96140	1.50	8.0	18.8	
2	1.579	6	0.769	0.44	0.464	10.67	16.41	53500	50730	82260	78010	1.40	8.0	17.5	
3	0.670	4	0.501	0.20	0.197	4.71	6.70	51940	52730	73850	74980	1.40	8.0	17.5	
4	0.683	4	0.506	0.20	0.201	4.76	6.78	52500	52240	74750	74380	1.40	8.0	17.5	
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**BEND TEST:**

--	No Bend test performed	<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)

Material Engineer  
 Gatewala Commercial Hub, Faisalabad

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: GCHF/2022/ME/28

SOM Lab 508 (Page-

Ref: 1/1)

Dated: 20-06-2022

Dated: 20-06-2022

Test: Tension Test 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	1.509	6	0.751	0.44	0.443	13.88	18.14	69590	69120	90950	90330	1.30	8.0	16.3	
2	1.482	6	0.745	0.44	0.436	13.46	19.11	67450	68070	95800	96680	1.50	8.0	18.8	
3	0.678	4	0.503	0.20	0.199	6.17	8.51	68010	68350	93860	94330	1.10	8.0	13.8	
4	0.682	4	0.505	0.20	0.200	6.12	8.51	67450	67450	93860	93860	1.30	8.0	16.3	
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Witnessed By: M. Kashif (Shah Nawaz Asst.), M.Jamil (FF-Steel)

**BEND TEST:**

--	No Bend test performed	<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)

Tahir Mehmood

**Test Performed By:** Dr. /Engr. Irfan UI Hasan

Chief Engr. Zaitoon, New Lahore City. (Const Of O.H.W.T By Arif Zaman Const Company Lahore)

**Client Reference:** NLC/CE/0119

**SOM Lab** 511 (Page-

**Ref:** 1/1)

**Dated:** 14-06-2022

**Dated:** 20-06-2022

**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	1.471	6	0.742	0.44	0.432	11.93	16.46	59780	60890	82520	84050	1.60	8.0	20.0	
2	1.472	6	0.743	0.44	0.433	12.18	16.82	61060	62050	84310	85670	1.70	8.0	21.3	
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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 Ahsan

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Baig Construction Co Lahore.(Const Of Jinnah Squair Mall Raiwind Road Lahore.)

Client Reference: CBT/UET/02

SOM Lab 512 (Page-

Ref: 1/1)

Dated: 20-06-2022

Dated: 20-06-2022

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	1.497	6	0.748	0.44	0.440	13.05	20.03	65400	65400	100400	100400	1.40	8.0	17.5	
2	1.505	6	0.750	0.44	0.442	13.12	20.18	65760	65460	101170	100710	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)

Engr. Abdul Kareem Memon

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

RE Allied Engg Consultants.(Estb Of Mother & Child Block In Sir Ganga Ram Hospital Lahore)

**Client Reference:** AEC/MBC/2022/200

**SOM Lab** 513 (Page-

**Ref:** 1/1)

**Dated:** 02-06-2022

**Dated:** 20-06-2022

**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	1.508	6	0.751	0.44	0.443	12.61	18.55	63210	62780	92990	92360	1.30	8.0	16.3	
2	1.504	6	0.750	0.44	0.442	12.79	18.31	64130	63840	91770	91350	1.40	8.0	17.5	
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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)

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

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

**Client Reference:** Nil

**SOM Lab** 515 (Page-

**Ref:** 1/1)

**Dated:** 17-06-2022

**Dated:** 20-06-2022

**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	2.657	8	0.997	0.79	0.781	23.26	33.71	64940	65690	94110	95200	1.30	8.0	16.3	
2	2.640	8	0.994	0.79	0.776	23.77	33.91	66370	67560	94680	96390	1.40	8.0	17.5	
3	1.360	6	0.714	0.44	0.400	15.01	19.03	75210	82730	95400	104930	1.10	8.0	13.8	
4	1.362	6	0.714	0.44	0.400	14.90	18.93	74700	82170	94880	104370	1.00	8.0	12.5	
5	0.673	4	0.502	0.20	0.198	6.70	8.63	73850	74600	95210	96170	1.00	8.0	12.5	
6	0.653	4	0.494	0.20	0.192	6.17	8.77	68010	70840	96670	100700	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)



Engr. Naveed Sadiq  
RE Orbit Developers.Lahore.(The Springs Gulberg Lahore)

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

**Client Reference:** Nil

**SOM Lab** 516 (Page-

**Ref:** 1/1)

**Dated:** 17-06-2022

**Dated:** 20-06-2022

**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	2.665	8	0.998	0.79	0.783	24.03	35.04	67080	67680	97810	98690	1.30	8.0	16.3	
2	2.663	8	0.998	0.79	0.783	24.74	36.21	69070	69690	101080	101990	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	7.21	10.14	79470	80690	111850	113550	0.90	8.0	11.3	
4	0.673	4	0.502	0.20	0.198	7.14	9.86	78690	79480	108700	109800	0.80	8.0	10.0	
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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)

