

Arfan Nazir, Manager Civil

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Nishat Linen (Pvt) Ltd.(Const Of Nishat Linen Fabric Godown Extension)

4993(Page-1/1)

Client Reference: NL/ST/001

SOM Lab Ref:

Dated: 11-10-2024

Dated:

14-10-2024

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 200 mm

Sample Type:

MS Def Bar (Premiere 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.896	25	25.13	491	496	235.00	323.70	479	474	659	653	35.0	200	17.5	
2	3.879	25	25.08	491	494	235.20	323.70	479	476	659	656	37.5	200	18.8	
3	2.367	20	19.59	314	301	136.50	194.50	435	453	619	646	37.5	200	18.8	
4	2.377	20	19.63	314	303	136.50	195.00	435	451	621	645	37.5	200	18.8	
5	1.628	16	16.25	201	207	100.20	140.50	499	484	699	678	37.5	200	18.8	
6	1.598	16	16.10	201	204	93.50	132.20	465	460	658	650	35.0	200	17.5	
7	0.900	12	12.08	113	115	61.50	77.50	544	537	686	677	25.0	200	12.5	
8	0.885	12	11.98	113	113	65.00	79.70	575	577	705	707	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
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)

Test Performed by: S. Asad Ali Gillani

Khalid Pervaiz

Moaz Steel Lahore.

(Balakot Hydro Power Project)

Client Reference No.: MZ/JV-CGGC/UET/456

Dated: 14-10-2024

SOM Lab Ref: CED/SOM/5000 (Page 1/1)

Dated: 14-10-2024

Test Type: Tensile Test

Specification: BS EN 10025

Sample Type: Steel Plate (10mm,8mm)

Gauge Length: 2 inches

**Tensile Test Results**

Sr. No.	Size of strip (mm)	X Section Area (mm <sup>2</sup> )	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	38.8 x 10.2	395.76	128.0	179.7	323.42	454.06	0.80	40.00
2	37.3 x 8.0	298.40	106.2	144.5	355.89	484.24	0.60	30.00

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

Construction

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Solution Pakistan Islamabad.(Const Of Mill Building Naveen Approvel Defence Roof Lahore)

Client Reference: Nil

Dated: 14-10-2024

SOM Lab Ref: CED/SOM/4996 (Page-1/1)

Dated: 14-10-2024

Test: Tension Test &amp; 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	1.566	16	15.92	201	199	108.70	133.20	541	547	662	670	30.0	200	15.0	
2	1.565	16	15.93	201	199	110.70	134.00	551	556	666	672	30.0	200	15.0	
3	0.906	12	12.13	113	115	64.00	78.50	566	555	694	680	25.0	200	12.5	
4	0.898	12	12.07	113	114	61.20	77.50	541	535	685	678	25.0	200	12.5	
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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)

Jawad Qayyum Khan,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

NESPAK (4376-E) Sargodha. (Dualization of Sargodha Khushab Mianwali Road)( Group-II)

Client Reference: RE/4376-E/JQK/4d/439

SOM Lab

Ref:

4988 (Page-1/1)

Dated: 12-03-2024

Dated:

14-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AK-Supreme 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	2.643	8	0.995	0.79	0.777	22.22	35.65	62040	63080	99520	101180	1.30	8.0	16.3	
2	2.641	8	0.994	0.79	0.776	23.85	35.02	66590	67800	97750	99520	1.30	8.0	16.3	
3	1.507	6	0.751	0.44	0.443	12.81	19.34	64230	63790	96930	96270	1.30	8.0	16.3	
4	1.504	6	0.750	0.44	0.442	12.66	19.16	63460	63180	96060	95630	1.50	8.0	18.8	
5	1.023	5	0.619	0.31	0.301	10.14	13.34	72160	74320	94930	97770	1.10	8.0	13.8	
6	1.053	5	0.627	0.31	0.309	9.89	13.30	70350	70580	94640	94950	1.30	8.0	16.3	
7	0.673	4	0.502	0.20	0.198	6.52	8.79	71940	72670	96900	97880	1.30	8.0	16.3	
8	0.672	4	0.501	0.20	0.197	6.12	8.74	67450	68470	96340	97800	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 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)

Project Incharge  
KMI Group Fazal.(Const of New Continues MDF Plant)

Test Performed By: Dr. /Engr. Usman Akmal

Client Reference: KM-CIVIL/01

SOM Lab

Ref: 4989 (Page-1/1)

Dated: 13-10-2024

Dated: 14-10-2024

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	21.56	34.27	60190	61750	95680	98160	1.40	8.0	17.5	
2	1.501	6	0.749	0.44	0.441	16.43	23.31	82370	82180	116850	116590	1.20	8.0	15.0	
3	0.671	4	0.501	0.20	0.197	7.56	9.38	83410	84680	103420	104990	1.10	8.0	13.8	
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Witnessed By: ZAFAR IQBAL JAVID

**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)

Tahawar Owais

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM DSG Energy Lahore.(Const Of Office Building at 29-M QIE,Lahore)

Client Reference: Nil

SOM Lab

Ref: 4990 (Page-1/1)

Dated: 14-10-2024

Dated: 14-10-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Hunza 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	2.703	8	1.005	0.79	0.794	29.46	36.65	82250	81830	102310	101790	1.50	8.0	18.8	
2	2.649	8	0.995	0.79	0.778	28.29	35.60	78970	80190	99380	100910	1.40	8.0	17.5	
3	1.493	6	0.748	0.44	0.439	16.02	19.67	80320	80510	98610	98840	1.10	8.0	13.8	
4	1.504	6	0.750	0.44	0.442	15.60	19.37	78180	77820	97080	96640	1.30	8.0	16.3	
5	0.671	4	0.501	0.20	0.197	7.05	8.82	77790	78970	97230	98720	1.10	8.0	13.8	
6	0.672	4	0.501	0.20	0.197	7.29	8.92	80370	81600	98360	99860	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)

M. Armughan Khan, Dy Dir

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

WASA, LDA, Lhr. (R/Water Manag Drain Arrangement at Nishater Park Sports Complex) (Habib Const)

Client Reference: QCD/2072

SOM Lab

Ref: 4991 (Page-1/3)

Dated: 11-10-2024

Dated: 11-10-2024

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	2.663	8	0.998	0.79	0.783	25.15	36.54	70210	70840	102020	102930	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 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)

M. Armughan Khan,Dy Dir

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

WASA,LDA,Lhr.(R/Water Manag Drain Arrangement at Nishater Park Sports Complex)(Habib Const)

**Client Reference:** QCD/2073

**SOM Lab**

**Ref:** 4991 (Page-2/3)

**Dated:** 11-10-2024

**Dated:** 11-10-2024

**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	1.504	6	0.750	0.44	0.442	14.80	19.67	74190	73860	98610	98170	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 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)



M. Armughan Khan,Dy Dir

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

WASA,LDA,Lhr.(R/Water Manag Drain Arrangement at Nishater Park Sports Complex)(Habib Const)

**Client Reference:** QCD/2071

**SOM Lab**

**Ref:** 4991 (Page-3/3)

**Dated:** 11-10-2024

**Dated:** 11-10-2024

**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	0.670	4	0.501	0.20	0.197	6.98	8.97	77000	78170	98920	100430	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 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)

Engineer Muhammad Irfan

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

Dy Dir Infra. DHA Gujranwala.(Const Of Living Barracks For Security Guards at Southern End)

Client Reference: 111/DD/Lab/LB/S-End/13

SOM Lab

Ref: 4992 (Page-1/1)

Dated: 11-10-2024

Dated: 14-10-2024

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	0.659	4	0.497	0.20	0.194	6.37	8.84	70260	72430	97460	100470	1.20	8.0	15.0	
2	0.665	4	0.498	0.20	0.195	6.42	8.79	70820	72640	96900	99380	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)

Muhammad Ahsan Ali,RE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

NESPAK Lhr.(Infrastructure Development at Chahar Bagh Under Ravi Riverfront Urban Dev Project)

Client Reference: 4559/13/MAA/09/443

SOM Lab

Ref: 4994 (Page-1/1)

Dated: 04-10-2024

Dated: 14-10-2024

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	0.667	4	0.500	0.20	0.196	6.07	9.07	66890	68250	100050	102090	1.10	8.0	13.8	H# 11
2	0.667	4	0.500	0.20	0.196	6.14	9.09	67670	69050	100270	102320	1.10	8.0	13.8	H# 13
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**BEND TEST:**

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

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

Z.H.Kazmi & Associates.(Const. Of Allied Bank Ltd.Commercial Market,Farid Town Branch,Swl)

**Client Reference:** Nil

**SOM Lab**

**Ref:** 4995 (Page-1/1)

**Dated:** 14-10-2024

**Dated:** 14-10-2024

**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	2.642	8	0.994	0.79	0.776	25.79	35.47	72000	73300	99030	100820	1.30	8.0	16.3	
2	2.623	8	0.991	0.79	0.771	25.96	35.54	72480	74270	99210	101650	1.40	8.0	17.5	
3	1.456	6	0.738	0.44	0.428	15.44	19.59	77410	79580	98210	100960	1.30	8.0	16.3	
4	1.462	6	0.740	0.44	0.430	14.14	19.01	70870	72520	95290	97510	1.20	8.0	15.0	
5	0.662	4	0.498	0.20	0.195	6.49	8.56	71610	73440	94420	96850	1.20	8.0	15.0	
6	0.667	4	0.500	0.20	0.196	6.54	8.61	72170	73640	94990	96930	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)

Khurram Shahzad  
Lahore.(Project: Ali Trade Center Lahore)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: Nil

SOM Lab

Ref: 4997 (Page-1/1)

Dated: 14-10-2024

Dated: 14-10-2024

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	2.640	8	0.994	0.79	0.776	23.31	31.26	65090	66260	87280	88860	1.60	8.0	20.0	
2	2.642	8	0.994	0.79	0.776	19.47	29.23	54360	55340	81590	83060	1.50	8.0	18.8	
3	1.511	6	0.752	0.44	0.444	14.78	20.05	74090	73420	100500	99600	1.30	8.0	16.3	
4	1.515	6	0.753	0.44	0.445	14.34	19.83	71890	71090	99380	98260	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 Five 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 Asif  
Canal44 Luxury Apartments Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 4998 (Page-1/1)

Dated: Nil

Dated: 14-10-2024

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	2.620	8	0.990	0.79	0.770	25.86	33.35	72200	74080	93120	95530	1.50	8.0	18.8	
2	2.642	8	0.994	0.79	0.776	25.18	33.40	70290	71560	93260	94940	1.60	8.0	20.0	
3	1.483	6	0.745	0.44	0.436	13.81	18.67	69240	69870	93610	94470	1.30	8.0	16.3	
4	1.485	6	0.745	0.44	0.436	14.48	19.06	72560	73220	95550	96430	1.40	8.0	17.5	
5	0.666	4	0.500	0.20	0.196	6.60	8.63	72730	74210	95210	97150	1.20	8.0	15.0	
6	0.661	4	0.497	0.20	0.194	6.44	8.48	71040	73240	93530	96420	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 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)

Sufyan Uppal, PE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Baig Constuction Co. Lahore.(Const. Of Jinnah Square Mall Raiwind Road Lahore)

Client Reference: ST/UET/10102024/0468

SOM Lab

Ref:

4999 (Page-1/1)

Dated: 10-10-2024

Dated:

14-10-2024

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	2.666	8	0.998	0.79	0.783	28.85	37.69	80540	81260	105210	106150	1.40	8.0	17.5	
2	2.668	8	0.999	0.79	0.784	30.48	38.45	85090	85740	107340	108170	1.30	8.0	16.3	
3	1.482	6	0.745	0.44	0.436	15.26	18.65	76490	77190	93510	94360	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	15.49	18.96	77670	77840	95040	95250	1.40	8.0	17.5	
5	0.662	4	0.498	0.20	0.195	6.93	8.72	76440	78400	96110	98580	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	6.73	8.43	74190	76090	92960	95350	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)

