

Mustafa Ali

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Manager Coordination, IZHAR Construction (Pvt) Ltd. Lahore

Client Reference: ICPL/CONST- HNMPL/19/064

Dated: 12-07-2019

SOM Lab Ref: CED/SOM/1105(Page-1/1)

Dated: 15-07-2019

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	1.011	12	12.82	113	129	55.50	75.70	491	431	669	587	35.0	200	17.5	C-477/19
2	1.006	12	12.78	113	128	53.50	76.70	473	418	678	599	32.5	200	16.3	C-477/19
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**BEND TEST:**

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

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

Engr Ch Ali Ahmed

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Deputy Project Manager, Barqaab Consulting Services (Pvt) Ltd. Multan

Client Reference: BQB/RPM/MT 9243-45-T-16

Dated: 12-07-2019

SOM Lab Ref: CED/SOM/1107 (Page-1/1)

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Sample Type: Deformed Bar(City 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	3.813	25	24.88	491	486	207.00	352.00	422	426	717	725	37.5	200	18.8	
2	0.864	12	11.84	113	110	49.00	72.00	433	446	637	655	27.5	200	13.8	
3	0.895	12	12.05	113	114	48.70	72.20	431	428	638	634	27.5	200	13.8	
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**BEND TEST:**

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

Muhammad Ikram Khan

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager, A.S. Enterprises, (Client: Sapphire Textile Mill Ltd.)

Client Reference: Consignment # 3~4

Dated: 02-07-2019

SOM Lab Ref: CED/SOM/1108(Page-1/1)

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(AFCO 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	3.840	25	24.95	491	489	262.00	361.00	534	536	735	739	30.0	200	15.0	
2	3.835	25	24.94	491	488	259.00	353.50	528	531	720	724	25.0	200	12.5	
3	2.157	20	18.71	314	275	140.00	179.50	446	510	571	654	25.0	200	12.5	
4	2.131	20	18.59	314	271	139.00	176.00	442	513	560	649	30.0	200	15.0	
5	1.634	16	16.28	201	208	94.70	130.00	471	456	647	625	35.0	200	17.5	
6	1.618	16	16.20	201	206	94.70	130.00	471	460	647	631	40.0	200	20.0	
7	1.030	12	12.92	113	131	50.70	72.50	448	387	641	553	42.5	200	21.3	
8	1.005	12	12.77	113	128	51.00	72.70	451	399	643	568	40.0	200	20.0	
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**BEND TEST:**

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

Intiaz Ahmad

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

Project Manager, A.S. Enterprises, Engineers & Contractors, Lahore(Project US Dynamo Mill Sundar Est.)

Client Reference: USD/ASE/21

Dated: 15-07-2019

SOM Lab Ref: CED/SOM/1109(Page-1/1)

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(AFCO Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation
		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	1.012	12	12.82	113	129	55.20	79.20	488	428	700	614	37.5	200	18.8
2	1.018	12	12.85	113	130	56.00	79.20	495	432	700	611	37.5	200	18.8
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**BEND TEST:**

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

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

Ajaz Ahmad Gondal

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Acting Chief Resident Engineer, Trimu Panjnad Barrages Consultants(TPB Consultants)

Client Reference: TPBC/CRE/1915

SOM Lab Ref: 1102(Page-1/1)

Dated: 13-07-2019

Dated: 15-07-2019

Test: Tension Test &amp; Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar( Fazal Steel  
Islamabad)

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	2.607	8	0.988	0.79	0.766	26.71	34.30	74560	76900	95760	98760	1.00	8.0	12.5	
2	2.603	8	0.987	0.79	0.765	27.22	34.68	75980	78470	96820	99980	1.10	8.0	13.8	
3	1.449	6	0.736	0.44	0.426	16.69	20.49	83640	86390	102700	106080	1.10	8.0	13.8	
4	1.453	6	0.737	0.44	0.427	16.62	20.59	83290	85820	103210	106350	1.10	8.0	13.8	
5	0.662	4	0.498	0.20	0.195	5.98	9.25	65990	67680	101960	104570	1.20	8.0	15.0	
6	0.670	4	0.501	0.20	0.197	5.98	9.38	65990	66990	103420	104990	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>  <b>Only Nine Samples Received and Tested</b>
# 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)

Hafiz Muhammad Hasnain  
Jr. Engineer ( C ) KCP(W&S) Jauharabad

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: KCP(W&S)- CFPP - (MOP)/2018

SOM Lab

Ref: 1103(Page-1/1)

Dated: 15-07-2019

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.464	6	0.740	0.44	0.430	18.96	21.71	95040	97250	108830	111360	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>  <b>Only Two Samples Received and Tested</b>

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

Shahzad Munir  
Resident Engineer, G 3 Engineering Consultants (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: G3/224/RE-36

SOM Lab

Ref: 1104(Page-1/1)

Dated: 15-07-2019

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.650	4	0.493	0.20	0.191	7.03	8.79	77560	81220	96900	101460	0.90	8.0	11.3	
2	0.657	4	0.496	0.20	0.193	7.29	8.82	80370	83290	97230	100760	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>  <b>Only Three Samples Received and Tested</b>

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

Tanvir Hussain  
Resident Engineer, NESPAK (Pvt) Ltd. PKG-01, ISLAMABAD

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 36267/103/TH/01/50

SOM Lab

Ref: 1106(Page-1/1)

Dated: 08-07-2019

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(Mujahid Steel)

Gauge Length: 8 inch

Sample Type:

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	3.393	9	1.127	1.00	0.997	28.34	46.02	62500	62690	101510	101810	1.50	8.0	18.8	
2	3.344	9	1.119	1.00	0.983	28.13	45.79	62050	63130	100990	102740	1.30	8.0	16.3	
3	2.633	8	0.993	0.79	0.774	22.99	37.26	64180	65500	104010	106160	1.50	8.0	18.8	
4	2.662	8	0.998	0.79	0.782	22.75	36.24	63520	64170	101170	102200	1.40	8.0	17.5	
5	1.507	6	0.751	0.44	0.443	14.68	21.53	73580	73080	107910	107180	1.40	8.0	17.5	
6	1.471	6	0.742	0.44	0.432	12.33	20.25	61830	62970	101530	103410	1.50	8.0	18.8	
7	1.016	5	0.617	0.31	0.299	8.12	12.13	57800	59930	86300	89480	1.40	8.0	17.5	
8	1.027	5	0.620	0.31	0.302	8.94	13.27	63600	65290	94420	96930	1.30	8.0	16.3	
9	0.652	4	0.494	0.20	0.192	5.37	7.95	59240	61710	87680	91330	1.40	8.0	17.5	
10	0.657	4	0.496	0.20	0.193	5.22	7.87	57560	59640	86780	89930	1.40	8.0	17.5	

**BEND TEST:**

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



Habib Contractors  
Lahore (Project at Crescent Educational Trust)

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: nil

Dated: 15-07-2019

SOM Lab

Ref: 1111 (Page-1/1)

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Saeed Kasur)

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	12.30	20.90	61670	61530	104750	104510	1.20	8.0	15.0	
2	1.500	6	0.749	0.44	0.441	12.23	20.92	61320	61180	104850	104610	1.10	8.0	13.8	
3	0.672	4	0.501	0.20	0.197	5.73	8.82	63180	64140	97230	98720	1.20	8.0	15.0	
4	0.666	4	0.500	0.20	0.196	5.68	8.74	62610	63890	96340	98300	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>  <b>Only Six Samples Received and Tested</b>
# 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)

Anis Ahmad  
Senior Engineer, Mansoor Mazhar & Associates, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: MMA/PVV/MH/04

SOM Lab

Ref: 1112(P-1/1)

Dated: 15-07-2019

Dated: 15-07-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.499	6	0.749	0.44	0.441	14.88	20.71	74600	74430	103830	103590	1.20	8.0	15.0	
2	1.509	6	0.751	0.44	0.443	14.98	20.85	75110	74600	104490	103780	1.20	8.0	15.0	
3	0.647	4	0.492	0.20	0.190	6.75	8.79	74420	78330	96900	102000	1.00	8.0	12.5	
4	0.644	4	0.491	0.20	0.189	6.83	8.61	75320	79700	94990	100510	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>  <b>Only Six Samples Received and Tested</b>
# 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)