

Muhammad Naeem

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

Site Engineer, Project: Allied Bank Ltd, Plot No. 14 Block A3, Gulberg III, Lahore

Client Reference: Nil

Dated: Nil

SOM Lab Ref: CED/SOM/4853 (Page-1/1)

Dated: 24-08-2021

Test: Tension Test Bend Test

Test Specification: ASTM-F-1554

Sample Type: Deformed Bar( Mughal 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	2.195	20	18.88	314	280	187.50	210.50	597	670	670	752	17.5	200	8.8	
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**BEND TEST:**

20mm	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 In Charge  
(PMBMC) Panjab Model Bazar, Pakpattan, Management Company,

**Test Performed By:**

**Dr. /Engr. S. Asad Ali Gillani**

**Client Reference:** CSI/MB/2/MWLI/NMB/CONS/NOC/04/15

**Dated:** 23-08-2021

**SOM Lab Ref:** CED/SOM/4854(Page-1/1)

**Dated:** 24-08-2021

**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	2.530	19	20.25	284	322	162.50	208.50	573	505	735	648	32.5	200	16.3	
2	2.512	19	20.18	284	320	166.50	211.00	587	521	744	660	32.5	200	16.3	
3	1.035	12	12.96	113	132	63.50	93.20	561	482	824	707	30.0	200	15.0	
4	1.040	12	12.99	113	132	63.20	93.20	559	478	824	704	32.5	200	16.3	
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**BEND TEST:**

19MM	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)

Engr. Shahid R.Zaidi  
Project Manager, CCECC MATRACON - HABIB Joint Venture

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

**Client Reference:** AIAP/CCECC-MATRACON-HABIB JV/2021/581

**Dated:** 23-08-2021

**SOM Lab Ref:** CED/SOM/4857 (Page-1/1)

**Dated:** 24-08-2021

**Test:** Tension Test & Bend Test

**Test Specification:** BS-4449

**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	0.892	12	12.05	113	114	49.00	72.70	433	430	643	638	37.5	200	18.8	
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**BEND TEST:**

12mm	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)

Syed Yasir Ali

**Test Performed By:**

**Dr. /Engr. S. Asad Ali Gillani**

Resident Engineer, NESPAK, (Pvt) Ltd.(U.E.T. Lahore Sub Campus at Narowal)

**Client Reference:** 3630/13/SYA/BH- Steel Batala/437

**SOM Lab Ref:** 4850(Page-1/1)

**Dated:** 06-08-2021

**Dated:** 24-08-2021

**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	1.471	6	0.742	0.44	0.432	13.66	19.46	68470	69740	97540	99350	1.10	8.0	13.8	
2	1.471	6	0.742	0.44	0.432	14.37	19.37	72050	73380	97080	98880	1.30	8.0	16.3	
3	0.665	4	0.498	0.20	0.195	6.07	9.09	66890	68600	100270	102840	1.00	8.0	12.5	
4	0.664	4	0.498	0.20	0.195	5.88	9.04	64860	66530	99710	102260	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 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)

Sub Divisional Officer  
Highway Sub Division, Mainwali

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

**Client Reference:** 360/SDO/Mwi

**SOM Lab Ref:** 4851 (Page-1/1)

**Dated:** 03-08-2021

**Dated:** 24-08-2021

**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	2.612	8	0.989	0.79	0.768	24.64	34.15	68790	70760	95340	98070	1.50	8.0	18.8	
2	2.603	8	0.987	0.79	0.765	24.46	34.10	68300	70530	95190	98300	1.50	8.0	18.8	
3	1.474	6	0.743	0.44	0.433	13.78	19.62	69080	70200	98360	99950	1.10	8.0	13.8	
4	1.469	6	0.742	0.44	0.432	13.71	19.57	68730	70000	98100	99920	1.40	8.0	17.5	
5	0.662	4	0.498	0.20	0.195	6.85	10.01	75540	77480	110390	113220	1.10	8.0	13.8	
6	0.657	4	0.496	0.20	0.193	6.75	10.04	74420	77120	110720	114740	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)

Abdul Ghafar  
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210824

SOM Lab Ref: 4852(Page-1/1)

Dated: 24-08-2021

Dated: 24-08-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar( Batala Premium)

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	2.617	8	0.990	0.79	0.769	24.67	35.68	68870	70750	99600	102320	1.30	8.0	16.3	
2	2.610	8	0.988	0.79	0.767	25.08	35.78	70010	72110	99890	102880	1.20	8.0	15.0	
3	2.600	8	0.986	0.79	0.764	25.08	35.85	70010	72390	100090	103490	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 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)

Engineer In Charge

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

(PMBMC) Panjab Model Bazar, Pakpatan, Management Company,

Client Reference: CSI/MB/2/MWLI/NMB/CONS/NOC/04/15 SOM Lab Ref: 4854(Page-1/1)

Dated: 23-08-2021

Dated: 24-08-2021

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	2.539	8	0.975	0.79	0.746	26.37	34.25	73620	77960	95620	101260	1.20	8.0	15.0	
2	2.532	8	0.973	0.79	0.744	26.27	34.15	73340	77870	95340	101230	1.10	8.0	13.8	
3	1.477	4	0.743	0.20	0.434	18.86	23.01	207950	95830	253700	116920	1.00	8.0	12.5	
4	1.488	4	0.746	0.20	0.437	18.65	22.96	205710	94150	253140	115860	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 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)

Muhammad Shabbir

**Test Performed By:**

Dr. /Engr. S. Asad Ali Gillani

Construction Manager, Opal Deever Developers Pvt. Ltd. Lahore

**Client Reference:** ZD/ZO/L/032

**SOM Lab Ref:** 4855(Page-1/1)

**Dated:** 24-08-2021

**Dated:** 24-08-2021

**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	2.696	8	1.004	0.79	0.792	27.78	36.31	77550	77350	101370	101110	1.40	8.0	17.5	
2	2.628	8	0.991	0.79	0.772	27.01	36.70	75420	77170	102450	104840	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 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  
Resident Engineer, Pillar & Sons, DHA Multan

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

**Client Reference:** P&S/OTH/GEN/00037

**SOM Lab Ref:** 4504(Page-1/1)

**Dated:** 16-08-2021

**Dated:** 24-08-2021

**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	2.598	8	0.986	0.79	0.763	24.26	32.84	67730	70130	91690	94940	1.30	8.0	16.3	
2	2.603	8	0.987	0.79	0.765	23.72	32.11	66220	68390	89640	92570	1.50	8.0	18.8	
3	1.455	6	0.738	0.44	0.428	14.09	20.25	70620	72600	101530	104370	1.30	8.0	16.3	
4	1.472	6	0.743	0.44	0.433	13.00	18.67	65150	66200	93610	95120	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 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)

Sub Divisional Officer  
Public Health Engg: Sub Division -II, Mianwali

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

**Client Reference:** 368-69

**SOM Lab Ref:** 4858(Page-1/1)

**Dated:** 17-8-2021

**Dated:** 24-08-2021

**Test:** Tension Test & Bend Test

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

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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	1.506	6	0.751	0.44	0.443	13.76	18.86	68980	68510	94530	93890	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.22	8.66	68570	69970	95550	97500	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)