

Engr. Asif Raza

**Test Performed By:**

Dr. /Engr.

Nauman Khurram

Resident Engineer, Allied Engineering Consultants (Pvt) Ltd. Lahore

**Client Reference:** AEC/GUJ/2021/01

**SOM Lab**

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**Ref:**

1/1)

**Dated:** 29-04-2021

**Dated:**

30-04-2021

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar Moiz

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	2.722	8	1.009	0.79	0.800	24.33	34.37	67930	67080	95960	94760	1.50	8.0	18.8	
2	2.638	8	0.993	0.79	0.775	25.28	34.81	70580	71940	97190	99070	1.60	8.0	20.0	
3	1.517	6	0.754	0.44	0.446	13.46	19.90	67450	66540	99740	98400	1.80	8.0	22.5	
4	1.522	6	0.754	0.44	0.447	13.56	19.93	67960	66890	99890	98330	1.50	8.0	18.8	
5	0.784	4	0.541	0.20	0.230	5.93	8.38	65420	56890	92400	80350	1.40	8.0	17.5	
6	0.652	4	0.494	0.20	0.192	5.98	8.43	65990	68740	92960	96840	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 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  
Resident Engineer, Orbit Housing, Lahore

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

Client Reference: Nil

SOM Lab 4279(Page-

Ref: 1/1)

Dated: 30-04-2021

Dated: 30-04-2021

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	2.631	8	0.992	0.79	0.773	24.31	35.68	67870	69370	99600	101790	1.40	8.0	17.5	
2	2.640	8	0.994	0.79	0.776	24.36	36.00	68020	69240	100510	102330	1.30	8.0	16.3	
3	1.454	6	0.737	0.44	0.427	14.90	21.87	74700	76980	109600	112940	1.10	8.0	13.8	
4	1.468	6	0.741	0.44	0.431	15.41	22.68	77260	78870	113690	116060	1.00	8.0	12.5	
5	0.680	4	0.505	0.20	0.200	7.34	9.84	80940	80940	108480	108480	1.10	8.0	13.8	
6	0.677	4	0.503	0.20	0.199	7.05	9.68	77790	78180	106790	107330	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)

Executive Engineer  
Highways Division Gujrat

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

Client Reference: 423/MCB

SOM Lab 4280(Page-

Ref: 1/1)

Dated: 18-03-2021

Dated: 30-04-2021

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	2.652	8	0.996	0.79	0.779	25.35	34.86	70780	71780	97330	98700	1.60	8.0	20.0	
2	2.649	8	0.995	0.79	0.778	24.43	34.45	68220	69270	96190	97670	1.60	8.0	20.0	
3	1.475	6	0.743	0.44	0.433	13.48	19.37	67550	68640	97080	98650	1.70	8.0	21.3	
4	1.474	6	0.743	0.44	0.433	13.52	19.44	67750	68850	97440	99010	1.20	8.0	15.0	
5	0.656	4	0.496	0.20	0.193	6.09	8.46	67110	69540	93300	96680	1.30	8.0	16.3	
6	0.649	4	0.493	0.20	0.191	6.01	8.46	66320	69450	93300	97700	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)

Ghazanfar Ali  
Executive Engineer, State Bank of Pakistan, Faisalabad

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

Client Reference: ED/27901/SKT-NB/2021

SOM Lab 4281(Page-

Ref: 1/1)

Dated: 13-04-2021

Dated: 30-04-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar(Mughal 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	1.452	6	0.737	0.44	0.427	14.65	17.84	73430	75660	89420	92140	1.10	8.0	13.8	
2	1.443	6	0.735	0.44	0.424	14.48	17.76	72560	75290	89010	92370	1.00	8.0	12.5	
3	0.669	4	0.501	0.20	0.197	6.47	8.58	71380	72470	94650	96090	0.90	8.0	11.3	
4	0.664	4	0.498	0.20	0.195	6.39	8.58	70480	72290	94650	97080	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>  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)