

Construction Manager  
Guarantee Engineers (Pvt) Ltd. Lahore

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

Client Reference: nil

SOM Lab

Ref: 3287(Page-1/1)

Dated: 18-11-2020

Dated: 18-11-2020

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	0.585	4	0.468	0.20	0.172	7.82	8.92	86220	100250	98360	114370	0.90	8.0	11.3	
2	0.584	4	0.468	0.20	0.172	7.61	8.87	83970	97640	97800	113720	0.80	8.0	10.0	
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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)

Hafiz Ozair Ahmad  
Deputy Director (QCD), WASA, LDA, Lahore

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

Client Reference: QCD/ 2759-60

SOM Lab 3288(Page-

Ref: 2/2)

Dated: 16-11-2020

Dated: 18-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage 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	3.395	9	1.127	1.00	0.998	31.16	49.34	68730	68870	108810	109030	1.10	8.0	13.8	
2	3.389	9	1.126	1.00	0.996	32.69	48.62	72100	72390	107240	107670	1.20	8.0	15.0	
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**BEND TEST:**

# 9	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)

Deputy Director Engg.  
SEC-I & II, Package-I, LOLMTP, LDA Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: DD/PKG-I/LOLMTP/LDA/19

Dated: 17-11-2020

SOM Lab

Ref: 3289 (Page-1/1)

Dated: 18-11-2020

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	1.475	6	0.743	0.44	0.433	16.64	19.93	83390	84740	99890	101510	0.90	8.0	11.3	
2	1.475	6	0.743	0.44	0.433	17.09	20.56	85690	87070	103060	104730	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 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)