

Khurram Shahzad  
Jr. Engineer (Civil) SWP, PAEC, D. G. Khan

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Client Reference: SWP/W(2388)/2019/2852

SOM Lab Ref: 2492 (Page-1/1)

Dated: 08-05-2020

Dated: 14-05-2020

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	2.624	8	0.991	0.79	0.771	24.54	32.18	68500	70190	89840	92060	1.50	8.0	18.8	
2	2.625	8	0.991	0.79	0.771	24.54	32.21	68500	70190	89930	92140	1.30	8.0	16.3	
3	1.497	6	0.748	0.44	0.440	14.34	19.44	71890	71890	97440	97440	1.00	8.0	12.5	
4	1.513	6	0.753	0.44	0.445	12.74	18.22	63870	63150	91310	90280	1.20	8.0	15.0	
5	0.704	4	0.513	0.20	0.207	6.83	9.02	75320	72770	99480	96120	1.20	8.0	15.0	
6	0.708	4	0.515	0.20	0.208	6.88	9.07	75880	72960	100050	96200	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  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)

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/896/5118

SOM Lab

Ref: 2493(Page-1/1)

Dated: 12-05-2020

Dated: 14-05-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Kamran 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	0.647	4	0.492	0.20	0.190	6.95	9.06	76660	80700	99930	105190	1.30	8.0	16.3	
2	0.650	4	0.493	0.20	0.191	6.34	8.66	69920	73220	95550	100050	1.30	8.0	16.3	
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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)

Engr M. Naveed Sadiq  
Resident Engineer, Orbit Housing, Lahore

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

Client Reference: Nil  
Dated: 14-05-2020

SOM Lab  
Ref: 2494(Page-1/1)  
Dated: 14-05-2020

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	0.652	4	0.494	0.20	0.192	6.03	9.09	66550	69320	100270	104450	1.10	8.0	13.8	
2	0.646	4	0.492	0.20	0.190	6.12	8.89	67450	71000	98020	103180	1.10	8.0	13.8	
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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)