

Jawad Javaid  
Sr Engineer, Pakistan Radiation Services, Lahore

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

**Client Reference:** nil  
**SOM Lab Ref:** CED/SOM/3237(Page-1/1)

**Dated:** 10-11-2020

**Dated:** 10-11-2020

**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	4.002	25	25.48	491	510	242.70	348.50	494	476	710	684	37.5	200	18.8	
2	4.015	25	25.52	491	511	239.70	338.20	488	469	689	662	35.0	200	17.5	
3	0.900	12	12.08	113	115	55.50	75.50	491	485	668	659	35.0	200	17.5	
4	0.905	12	12.11	113	115	54.20	75.50	479	471	668	656	30.0	200	15.0	
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**Witnessed By:** M. Hamayun Nasir, Sr. Engineer

**BEND TEST:**

25mm	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)

Ahmed Hamayun Imtiaz

**Test Performed By:**

Dr. /Engr.

Namun Khurram

Project Coordinator, Petrocon (Pvt) Ltd. Lahore Manager Liberty Builders, Lahore

**Client Reference:** 100/UET-P299/TEST

**SOM Lab**

**Ref:**

3230(Page-1/1)

**Dated:** 09-11-2020

**Dated:**

10-11-2020

**Test:** Tension Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar( Amreli 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	0.587	4	0.469	0.20	0.173	6.19	7.44	68230	78880	82060	94870	1.10	8.0	13.8	
2	0.586	4	0.468	0.20	0.172	6.24	7.51	68800	80000	82850	96330	1.10	8.0	13.8	
3	0.587	4	0.469	0.20	0.173	6.27	7.39	69130	79920	81500	94220	0.90	8.0	11.3	
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**BEND TEST:**

--	No Bend test performed	<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)

Safdar Hussain  
Resident Engineer, ACE, Danish School Mankera Residency

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ACE/RE-PDS/MNK/BHK/20/344

SOM Lab

Ref: 3231(Page-1/1)

Dated: 05-11-2020

Dated: 10-11-2020

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	0.990	5	0.609	0.31	0.291	10.14	14.12	72160	76870	100440	107000	0.80	8.0	10.0	
2	0.997	5	0.611	0.31	0.293	9.86	13.51	70130	74200	96090	101670	1.10	8.0	13.8	
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**BEND TEST:**

# 5	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)

Ali Imran (Assistant Director)  
Acting Project Director, Air University, Multan Campus, Multan

**Test Performed By:** Dr. /Engr.

S. Asad Ali  
Gillani

**Client Reference:** MUX/AUMC/UGWT/2020/01

**Dated:** 09-11-2020

**SOM Lab**

**Ref:** 3232(P-1/1)

**Dated:** 10-11-2020

**Test:** Tension Test & Bend Test

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

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Itteaq 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	0.586	4	0.468	0.20	0.172	4.76	6.93	52500	61040	76440	88880	1.50	8.0	18.8	
2	0.588	4	0.469	0.20	0.173	4.33	6.19	47780	55230	68230	78880	1.70	8.0	21.3	
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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)

Sohail Afzal

Test Performed By:

Dr. /Engr.

Nauman Khurram

Sr. Project Manager, IZHAR Construction (Pvt) Ltd. , Izhar Group of Companies Lahore

Client Reference: ICPL/CONST-DML/20/28

SOM Lab

Ref:

3233 (Page-1/1)

Dated: 09-11-2020

Dated:

10-11-2020

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	1.455	16	0.738	1.56	0.428	13.53	19.16	19130	69710	27100	98750	1.20	8.0	15.0	
2	1.457	16	0.738	1.56	0.428	14.02	19.34	19820	72230	27340	99650	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>  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)

Engr. Naveed Sadiq  
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: Nil

Dated: 10-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3234(Page-1/1)

Dated: 10-11-2020

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	2.651	8	0.996	0.79	0.779	22.53	36.24	62890	63780	101170	102600	1.40	8.0	17.5	
2	2.651	8	0.996	0.79	0.779	22.91	33.56	63950	64850	93680	95010	1.30	8.0	16.3	
3	1.495	6	0.748	0.44	0.439	13.46	19.75	67450	67600	98970	99200	1.10	8.0	13.8	
4	1.546	6	0.760	0.44	0.454	13.25	20.00	66430	64380	100250	97160	1.20	8.0	15.0	
5	0.668	4	0.500	0.20	0.196	5.96	8.46	65760	67100	93300	95200	1.10	8.0	13.8	
6	0.645	4	0.492	0.20	0.190	6.88	9.25	75880	79870	101960	107320	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)