

Jamal Abdul Nasir  
Senior Resident Engineer, ACES - DHA, Multan

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

**Client Reference:** ACES/SEC-A/LAB/006

**Dated:** 22-01-2021

**SOM Lab Ref:** CED/SOM/3704 (Page-1/1)

**Dated:** 25-01-2021

**Test:** Tension Test Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** Deformed Bar(Zia 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	1.030	12	12.92	113	131	59.70	90.50	528	456	800	691	25.0	200	12.5	
2	1.010	12	12.80	113	129	57.70	89.00	510	449	787	692	22.5	200	11.3	
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**BEND TEST:**

12mm	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)

Abdul Ghafar  
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20210125-33  
Dated: 25-01-2021  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab 3705(Page-2/2)  
Ref: 2/2  
Dated: 25-01-2021  
ASTM-A-615  
Sample Type: Deformed Bar( Bataala 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	2.609	8	0.988	0.79	0.767	24.08	35.24	67220	69240	98380	101330	1.20	8.0	15.0	
2	2.640	8	0.994	0.79	0.776	24.10	35.24	67280	68490	98380	100160	1.30	8.0	16.3	
3	2.637	8	0.993	0.79	0.775	23.72	34.91	66220	67510	97470	99360	1.30	8.0	16.3	
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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
# 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/ 20210125-34  
Dated: 258-01-2021  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab 3705(Page-1/2)  
Ref: 1/2)  
Dated: 25-01-2021  
ASTM-A-615  
Sample Type: Deformed Bar( Bataala 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	2.631	8	0.992	0.79	0.773	22.85	34.32	63810	65210	95820	97930	1.20	8.0	15.0	
2	2.637	8	0.993	0.79	0.775	23.34	34.35	65170	66430	95900	97760	1.10	8.0	13.8	
3	2.630	8	0.992	0.79	0.773	22.91	34.00	63950	65350	94910	97000	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
# 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)

Material Engineer,  
 Gatwala Commercial HUB, Faisalabad

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

**Client Reference:** GCH/2020/ME/01

**SOM Lab** 3712(Page-

**Ref:** 1/1)

**Dated:** 25-01-2021

**Dated:** 25-01-2021

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Tor 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	0.649	4	0.493	0.20	0.191	6.63	9.30	73070	76510	102520	107350	1.10	8.0	13.8	
2	0.654	4	0.494	0.20	0.192	6.54	9.09	72170	75180	100270	104450	1.20	8.0	15.0	
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**Witnessed By:** Kashif, Material Engineer

**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)