

Azhar Munir

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Sr. Site Incharge, Associated Technologies (Pvt) Ltd Lahore(Site: 42641,42930-CM Pak Rollout Project)

Client Reference: Nil

Dated:

Nil

SOM Lab Ref: CED/SOM/1293(Page-1/1)

Dated:

027-06-2019

Test: Tension Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Steel 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	2.450	20	19.93	314	312	158.20	207.00	504	508	659	664	30.0	200	15.0	
2	0.891	12	12.02	113	114	57.00	70.70	504	503	625	623	35.0	200	17.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-  Only Two 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)

Abdul Ghafar  
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: CONC - 20190727

SOM Lab

Ref: 1295(Page-1/1)

Dated: 27-08-2019

Dated: 27-08-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar( Model 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	1.476	6	0.743	0.44	0.434	17.48	21.33	87630	88840	106890	108370	1.00	8.0	12.5	
2	1.454	6	0.737	0.44	0.427	16.97	20.59	85070	87660	103210	106350	1.00	8.0	12.5	
3	1.478	6	0.743	0.44	0.434	17.04	20.23	85430	86610	101420	102830	1.00	8.0	12.5	
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**BEND TEST:**

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

**Malil Muhammad Adil**  
**Director, Malik Steel Sales Depot, Lahore**

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

**Client Reference:** nil  
**Dated:** 27-08-2019

**SOM Lab**  
**Ref:** 1297(Page-1/2)  
**Dated:** 27-08-2019

**Test:** Tension Test & Bend Test      **Test Specification:**

**ASTM-A-615**  
**Deformed**  
**Bar**

**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	0.654	4	0.494	0.20	0.192	4.99	7.82	55080	57380	86220	89810	1.40	8.0	17.5	
2	0.679	4	0.505	0.20	0.200	5.20	8.21	57330	57330	90490	90490	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)