

Engr. Sajid Khawaja  
 Manager Civil, Orient , Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ORIENT/AFCO/Hotel Tower/Steel/004

Dated: 27-06-2019

SOM Lab Ref: CED/SOM/1026 (Page-1/1)

Dated: 28-06-2019

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	2.990	22	22.03	380	381	191.50	293.20	504	503	771	770	35.0	200	17.5	
2	2.995	22	22.04	380	382	193.70	192.00	510	508	505	504	32.5	200	16.3	
3	1.541	16	15.81	201	196	87.00	136.70	433	444	680	697	37.5	200	18.8	
4	1.549	16	15.85	201	197	87.50	138.00	435	444	686	700	32.5	200	16.3	
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**BEND TEST:**

22mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
16mm	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, Const of Mosque , Sector -S, DHA Ph-VIII - (M/S Innovative)

SOM Lab

Client Reference: 408/241/E/Lab/622

Ref:

1025(Page-1/1)

Dated: 26-06-2019

Dated:

28-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length:

8 inch

Sample Type:

Deformed Bar (Kamran 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	2.581	8	0.982	0.79	0.758	24.87	33.15	69440	72370	92550	96450	1.40	8.0	17.5	
2	2.593	8	0.985	0.79	0.762	24.36	33.05	68020	70520	92260	95650	1.50	8.0	18.8	
3	1.475	6	0.743	0.44	0.433	12.76	18.35	63970	65010	91970	93460	1.60	8.0	20.0	
4	1.461	6	0.739	0.44	0.429	13.17	18.50	66020	67710	92740	95120	1.60	8.0	20.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>Only Six Samples Received and Tested</b>
# 6	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)

M/S Origin Construction Co.  
Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: nil

SOM Lab

Ref: 1027(Page-1/1)

Dated: 28-06-2019

Dated: 28-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.598	8	0.986	0.79	0.763	25.89	35.60	72290	74840	99380	102890	1.00	8.0	12.5	
2	2.581	8	0.982	0.79	0.758	25.69	25.35	71720	74740	70780	73760	1.30	8.0	16.3	
3	1.490	6	0.747	0.44	0.438	12.76	16.87	63970	64270	84560	84950	1.50	8.0	18.8	
4	1.499	6	0.749	0.44	0.441	12.76	16.87	63970	63830	84560	84370	1.30	8.0	16.3	
5	0.661	4	0.497	0.20	0.194	7.39	9.09	81500	84020	100270	103370	1.10	8.0	13.8	
6	0.655	4	0.494	0.20	0.192	7.14	8.87	78690	81970	97800	101870	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>  <b>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)

Furqan Ali Malik  
 Chief Resident Engineer, Package -I, NESPAK, (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S Asad Ali  
Gillani

Client Reference: 3765/13/FAM/Steel-006

SOM Lab

Ref: 1029(Page-1/1)

Dated: 27-06-2019

Dated: 28-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( Ittehad)

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	0.669	4	0.501	0.20	0.197	5.61	8.43	61830	62770	92960	94380	1.40	8.0	17.5	
2	0.667	4	0.500	0.20	0.196	5.58	8.36	61490	62750	92180	94060	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>

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