

M. Rafiq

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Majid Engineering Works, (M/S HA Consultant Pvt. Ltd. 10 D-2, Johr Town Lahore)

Client Reference: nil

Dated: 27-11-2020

SOM Lab Ref: CED/SOM/3337 (Page-1/2)

Dated: 27-11-2020

Test: Tension Test

Test Specification: ASTM-F-1554

Sample Type: J-Bolt

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	2.529	20	20.25	314	322	125.00	181.00	398	389	576	563	47.5	200	23.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample 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 Raza  
GM Technical Symbol Industriel (Pvt) Ltd.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 3329(Page-1/1)

Dated: 26-11-2020

Dated: 27-11-2020

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	0.575	4	0.464	0.20	0.169	4.45	6.17	49130	58140	68010	80480	1.60	8.0	20.0	
2	0.573	4	0.462	0.20	0.168	4.33	6.09	47780	56880	67110	79890	1.50	8.0	18.8	
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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)

Engr. Naveed Sadiq  
Resident Engineer, Orbit Housing, Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3332(Page-1/1)

Dated: 27-11-2020

Dated: 27-11-2020

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	1.502	6	0.749	0.44	0.441	12.86	19.52	64480	64340	97850	97630	1.60	8.0	20.0	
2	1.506	6	0.751	0.44	0.443	13.43	18.81	67290	66840	94270	93630	1.30	8.0	16.3	
3	0.661	4	0.497	0.20	0.194	5.66	8.46	62390	64320	93300	96190	1.20	8.0	15.0	
4	0.646	4	0.492	0.20	0.190	6.14	8.97	67670	71230	98920	104130	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 Six Samples Received and Tested
# 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)

Engr. Naveed Sadiq  
Resident Engineer, Orbit Developers Private Limited, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: Nil

Dated: 27-11-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3333(Page-1/1)

Dated: 27-11-2020

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	2.657	8	0.997	0.79	0.781	24.08	33.76	67220	67990	94250	95340	1.50	8.0	18.8	
2	2.571	8	0.981	0.79	0.756	24.23	32.90	67650	70690	91840	95970	1.60	8.0	20.0	
3	1.512	6	0.752	0.44	0.444	13.17	19.44	66020	65420	97440	96560	1.50	8.0	18.8	
4	1.524	6	0.755	0.44	0.448	13.35	19.54	66940	65740	97950	96200	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 Six Samples Received and Tested
# 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)

Muhammad Faizan  
Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: NTT-HO/FSDW-GS/036

SOM Lab

Ref: 3334(Page-1/1)

Dated: 27-11-2020

Dated: 27-11-2020

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	1.025	5	0.619	0.31	0.301	12.30	14.85	87540	90150	105670	108820	1.00	8.0	12.5	
2	1.026	5	0.620	0.31	0.302	10.45	13.66	74340	76310	97180	99750	1.00	8.0	12.5	
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Witnessed By: Sohaib Ali, NESPAK

**BEND TEST:**

# 5	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
# 5	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 Security Branch at DHA, Ph-II Lahore - (M/S Maint Branch)

Client Reference: 408/241/E/Lab/1043/-

SOM Lab

Ref: 3335(Page-1/1)

Dated: 27-10-2020

Dated: 27-11-2020

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	0.622	4	0.483	0.20	0.183	5.63	8.00	62050	67820	88240	96440	1.00	8.0	12.5	
2	0.613	4	0.479	0.20	0.180	5.83	8.23	64300	71440	90720	100790	0.90	8.0	11.3	
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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)

Muhammad Shahbaz  
Imperium Hospitality (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: IHPL.Steel/012  
Dated: 26-11-2020  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 3336(Page-1/1)  
Dated: 27-11-2020  
Test Specification: ASTM-A-615  
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	2.728	8	1.011	0.79	0.802	28.34	37.23	79120	77930	103930	102370	1.20	8.0	15.0	
2	2.742	8	1.013	0.79	0.806	28.13	37.26	78550	76990	104010	101950	1.10	8.0	13.8	
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**BEND TEST:**

# 8	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)