

Muhammad Danish Khurshid
 Manager Construction, Orient Electronice (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OSH-SO/UET/Afo Steel Test/210421-06

Dated: 21-04-2021

SOM Lab Ref: CED/SOM/4231 (Page-1/1)

Dated: 23-04-2021

Test: Tension 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.917	25	25.21	491	499	219.20	340.00	447	440	693	682	32.5	200	16.3	
2	3.918	25	25.21	491	499	219.50	339.00	447	440	691	680	32.5	200	16.3	
3	2.934	22	21.82	380	374	168.70	259.20	444	452	682	694	32.5	200	16.3	
4	2.951	22	21.88	380	376	165.50	254.20	435	441	669	677	30.0	200	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Danish Khurshid
 Manager Construction, Orient Electronice (Pvt) Ltd, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OSH-SO/UET/Kamran Steel Test/220421-08

Dated: 22-04-2021

SOM Lab Ref: CED/SOM/4232 (Page-1/1)

Dated: 23-04-2021

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.837	25	24.95	491	489	260.00	331.70	530	532	676	679	27.5	200	13.8	
2	3.822	25	24.90	491	487	245.20	317.70	500	504	647	653	35.0	200	17.5	
3	2.220	19	18.98	284	283	150.00	200.20	529	531	706	708	25.0	200	12.5	
4	2.210	19	18.94	284	282	129.70	172.50	457	461	608	613	35.0	200	17.5	
5	1.005	13	12.77	133	128	63.20	91.50	476	494	689	715	35.0	200	17.5	
6	0.985	13	12.64	133	126	57.50	82.00	433	459	618	654	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
19mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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

Qadri Brothers (Pvt) Ltd.
 Foundry, Castings & Forgings, Peco Road, Badami Bagh, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil
SOM Lab Ref: CED/SOM/4238 (Page-1/1)
Test: Tension Test
Sample Type: Deformed Bar

Dated: 23-04-2021
Dated: 23-04-2021
Test Specification: ASTM-A-615
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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.140	18	18.64	254	273	107.70	169.00	423	395	664	620	30.0	200	15.0	
2	0.954	12	12.44	113	121	49.20	73.20	435	406	647	603	30.0	200	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Shabbir
Construction Manager, Opal Deever Developers Pvt. Ltd. Lahore

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Client Reference: ZD/ZO/L/023

Dated: 04-04-2021

SOM Lab Ref: CED/SOM/4240 (Page-1/1)

Dated: 23-04-2021

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.854	12	11.78	113	109	53.20	74.00	470	489	654	679	27.5	200	13.8	
2	0.846	12	11.72	113	108	52.00	74.20	460	483	656	689	30.0	200	15.0	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Jaffar Rashid
Sr. Project Manager IZHAR GROUP OF COMPANIES, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ICPL/NHO/Lab/01
SOM Lab Ref: CED/SOM/4242(Page-1/1)

Dated: 23-04-2021

Dated: 23-04-2021

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Mughal 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.900	25	25.16	491	497	260.20	321.50	530	524	655	647	32.5	200	16.3	
2	3.951	25	25.32	491	503	254.70	335.20	519	506	683	666	30.0	200	15.0	
3	2.931	22	21.80	380	373	195.20	251.20	514	523	661	673	27.5	200	13.8	
4	2.932	22	21.81	380	374	185.50	251.00	488	497	660	672	30.0	200	15.0	
5	1.567	16	15.94	201	200	136.00	160.00	676	682	796	802	25.0	200	12.5	
6	1.711	16	16.66	201	218	116.70	142.20	580	536	707	653	27.5	200	13.8	
7	0.887	12	12.00	113	113	64.00	79.70	566	567	705	706	25.0	200	12.5	
8	0.886	12	11.99	113	113	67.20	82.00	594	596	725	727	22.5	200	11.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Sub Divisional Officer
Buildings Sub Division No.22, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 125/22nd

SOM Lab 4234(Page-

Ref: 1/1)

Dated: 14-04-2021

Dated: 23-04-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.467	6	0.741	0.44	0.431	13.93	17.48	69850	71310	87630	89460	1.30	8.0	16.3	
2	1.471	6	0.742	0.44	0.432	14.27	17.86	71540	72860	89520	91180	1.30	8.0	16.3	
3	0.731	4	0.523	0.20	0.215	7.08	9.14	78130	72680	100830	93800	1.20	8.0	15.0	
4	0.732	4	0.523	0.20	0.215	6.85	8.97	75540	70270	98920	92020	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Umar Nisar

Test Performed By:

Dr. /Engr.

Nauman Khurram

Project Engineer, SKY High Builder's, IZMIR SOCITY LAHORE (Rana Associates)

Client Reference: IZMIR/004

SOM Lab

4235(Page-

Ref:

1/1)

Dated: 22-04-2021

Dated:

23-04-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage Length: 8 inch

Sample Type:

Deformed Bar(AFCO Steel Ind.)

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.635	8	0.993	0.79	0.774	23.85	33.69	66590	67970	94050	96000	1.30	8.0	16.3	
2	2.609	8	0.988	0.79	0.767	22.45	32.33	62670	64550	90270	92980	1.50	8.0	18.8	
3	1.463	6	0.740	0.44	0.430	15.11	19.64	75720	77490	98460	100750	1.10	8.0	13.8	
4	1.473	6	0.743	0.44	0.433	14.70	19.34	73680	74870	96930	98500	1.30	8.0	16.3	
5	0.656	4	0.496	0.20	0.193	7.19	8.53	79250	82120	94090	97500	1.00	8.0	12.5	
6	0.674	4	0.502	0.20	0.198	7.05	8.33	77790	78570	91840	92770	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Wasim Muslim
Project Manager, NEXUS A & C JV, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nexus-A&C/Metroplan-Asian/Site-No:513

SOM Lab 4239(Page-

Ref: 1/1)

Dated: 21-03-2021

Dated: 23-04-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.571	8	0.981	0.79	0.756	30.45	35.44	85010	88830	98950	103400	1.00	8.0	12.5	
2	2.567	8	0.980	0.79	0.754	30.12	35.19	84090	88110	98240	102930	0.90	8.0	11.3	
3	1.492	6	0.747	0.44	0.438	13.43	17.69	67290	67600	88650	89060	1.20	8.0	15.0	
4	1.492	6	0.747	0.44	0.438	14.14	18.42	70870	71190	92330	92750	1.20	8.0	15.0	
5	0.674	4	0.502	0.20	0.198	6.75	8.36	74420	75170	92180	93110	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	6.70	8.33	73850	75750	91840	94190	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Shabbir
Construction Manager, Opal, Deever Developers Pvt. Ltd. Lahore

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

Client Reference: ZD/ZO/L/023

SOM Lab 4240(Page-

Ref: 1/1)

Dated: 04-04-2021

Dated: 23-04-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.647	8	0.995	0.79	0.778	26.63	34.96	74330	75480	97610	99120	1.30	8.0	16.3	
2	2.657	8	0.997	0.79	0.781	26.96	35.09	75270	76140	97950	99080	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Archt. Kalim A. Siddiqui
Chief Executive, KS & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: KS/UBL-TF-LHR/20/AP-32

SOM Lab 4241(Page-

Ref: 1/1)

Dated: 21-03-2021

Dated: 23-04-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.688	8	1.003	0.79	0.790	28.08	35.52	78400	78400	99180	99180	1.10	8.0	13.8	
2	1.501	6	0.749	0.44	0.441	15.67	19.75	78530	78360	98970	98750	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Archt. Kalim A. Siddiqui
Chief Executive, KS & Associates, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: KS/UBL-TF-LHR/20/AP-32

SOM Lab 4241(Page-

Ref: 2/2)

Dated: 21-03-2021

Dated: 23-04-2021

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.636	4	0.488	0.20	0.187	7.21	8.92	79470	85000	98360	105200	1.00	8.0	12.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk