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

Coordination Engineer, IZHAR Construction (Pvt) Ltd. ahore

Client Reference: ICPL/CONST-NML/21/040 **Dated:** 29-03-2021

SOM Lab Ref: CED/SOM/4137(Page-1/1) **Dated:** 31-03-2021

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	1.551	16	15.88	201	198	85.00	120.20	423	430	598	608	35.0	200	17.5	
2	1.539	16	15.80	201	196	88.20	123.20	439	450	613	629	35.0	200	17.5	
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BEND TEST:

16mm	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

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

Coordination Engineer, IZHAR Construction (Pvt) Ltd. ahore

Client Reference: ICPL/CONST-NML/21/041 **Dated:** 29-03-2021

SOM Lab Ref: CED/SOM/4138(Page-1/1) **Dated:** 31-03-2021

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	2.357	20	19.54	314	300	138.20	186.50	440	461	594	622	37.5	200	18.8	
2	2.365	20	19.59	314	301	141.00	190.20	449	468	605	632	40.0	200	20.0	
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BEND TEST:

20mm	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

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

Coordination Engineer, IZHAR Construction (Pvt) Ltd. ahore

Client Reference: ICPL/CONST-NML/21/042 **Dated:** 29-03-2021

SOM Lab Ref: CED/SOM/4139(Page-1/1) **Dated:** 31-03-2021

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	3.944	25	25.28	491	502	249.00	360.00	507	497	733	718	37.5	200	18.8	
2	3.926	25	25.24	491	500	251.00	360.20	511	502	734	721	40.0	200	20.0	0
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BEND TEST:

25mm	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

Rafaqat Ali

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

C. E. O. PEMAC (Maqbool Ahmad Block - KEMU)

Client Reference: PEMAC/KEMU-LS/2021/06 **Dated:** 31-03-2021

SOM Lab Ref: CED/SOM/4142 (Page-1/1) **Dated:** 31-03-2021

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

Sample Type: Deformed **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	0.996	12	12.72	113	127	78.20	90.50	691	616	800	713	25.0	200	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

Note: Please always confirm the results of above report on web 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: 31-03-2021

SOM Lab Ref: 4136(Page-1/1)
Dated: 31-03-2021

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.695	8	1.004	0.79	0.792	23.96	36.19	66880	66710	101030	100770	1.30	8.0	16.3	
2	2.683	8	1.002	0.79	0.788	23.41	35.37	65370	65540	98750	99000	1.40	8.0	17.5	
3	1.511	6	0.752	0.44	0.444	13.53	20.97	67810	67190	105100	104160	1.00	8.0	12.5	
4	1.512	6	0.752	0.44	0.444	13.58	20.95	68060	67450	105000	104060	1.10	8.0	13.8	
5	0.673	4	0.502	0.20	0.198	5.98	8.58	65990	66650	94650	95610	1.10	8.0	13.8	
6	0.678	4	0.503	0.20	0.199	6.39	9.30	70480	70840	102520	103030	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

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

Project Director, ELITE ENGINEERING (PVT) Ltd. (Project: Sitara Heights 3-Jays Tower, Gulberg-III. Lahore)

Client Reference: EEPL/SH/001/001 **SOM Lab Ref:** 4141(Page-1/1)

Dated: 31-03-2021 **Dated:** 31-03-2021

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	2.634	8	0.993	0.79	0.774	23.52	35.75	65650	67010	99800	101870	1.30	8.0	16.3	
2	2.625	8	0.991	0.79	0.771	23.31	35.49	65090	66690	99090	101530	1.30	8.0	16.3	
3	1.533	6	0.758	0.44	0.451	14.78	20.23	74090	72280	101420	98950	1.20	8.0	15.0	
4	1.531	6	0.757	0.44	0.450	14.77	20.18	74040	72390	101170	98920	1.10	8.0	13.8	
5	0.678	4	0.503	0.20	0.199	7.00	9.43	77230	77610	103980	104500	1.10	8.0	13.8	
6	0.676	4	0.503	0.20	0.199	7.00	9.50	77230	77610	104770	105290	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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