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

Elco Enterprises Innovation in Interior & Exterior,(ABL New Stellite Town Branch, Sargodha (0796))

Client Reference: nil **SOM Lab Ref:** 4064(Page-1/1)

Dated: 18-03-2021 **Dated:** 18-03-2021

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar(Ittefaq 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.499	6	0.749	0.44	0.441	13.88	18.88	69590	69440	94630	94410	1.10	8.0	13.8	
2	1.498	6	0.748	0.44	0.440	14.34	19.11	71890	71890	95800	95800	1.30	8.0	16.3	
3	0.715	4	0.517	0.20	0.210	5.93	9.04	65420	62310	99710	94960	1.40	8.0	17.5	
4	0.716	4	0.517	0.20	0.210	6.09	9.02	67110	63910	99480	94750	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Tahir Yaseen
Q-Links Property Management Pvt. Ltd

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

Client Reference: QL-BO-BH2-LTR-013
Dated: 13-03-2021

SOM Lab Ref: 4067(Page-2/2)
Dated: 18-03-2021

Test: Tension 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	2.615	8	0.989	0.79	0.768	27.83	35.55	77690	79920	99230	102080	1.40	8.0	17.5	
2	1.507	6	0.751	0.44	0.443	15.34	18.35	76900	76380	91970	91350	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Nawab Ali
Pakpattan

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

Client Reference: nil
Dated: 18-03-2021

SOM Lab Ref: 4065(Page-1/1)
Dated: 18-03-2021

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	2.576	8	0.982	0.79	0.757	23.70	32.31	66170	69050	90210	94150	1.60	8.0	20.0	
2	2.571	8	0.981	0.79	0.756	23.70	32.42	66170	69140	90500	94570	1.40	8.0	17.5	
3	1.514	6	0.753	0.44	0.445	15.24	21.25	76390	75530	106530	105340	1.00	8.0	12.5	
4	1.510	6	0.752	0.44	0.444	15.19	21.25	76130	75450	106530	105570	1.10	8.0	13.8	
5	0.652	4	0.494	0.20	0.192	6.22	8.34	68570	71430	91950	95780	1.20	8.0	15.0	
6	0.661	4	0.497	0.20	0.194	5.96	7.82	65760	67800	86220	88890	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Dy Dir MTL, Infra Dev Works of DHA Ph -IX (Pkg-8) - (M/S MAAKSONS)

Client Reference: 408/241/E/Lab/51/13474 **SOM Lab Ref:** 4066(Page-1/1)

Dated: 18-03-2021 **Dated:** 18-03-2021

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Mughal 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	6.49	9.12	71610	73440	100610	103190	1.00	8.0	12.5	
2	0.662	4	0.498	0.20	0.195	6.54	9.12	72170	74020	100610	103190	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	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

Project Manager
Q-Links Property Management Pvt. Ltd

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

Client Reference: QL-BO-BH2-2021-015
Dated: 18-03-2021

SOM Lab Ref: 4067(Page-1/2)
Dated: 18-03-2021

Test: Tension 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	0.685	4	0.506	0.20	0.201	6.39	9.30	70480	70130	102520	102010	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Project Manager
Q-Links Property Management Pvt. Ltd

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

Client Reference: QL-BO-BH2-LTR-013
Dated: 13-03-2021

SOM Lab Ref: 4067(Page-2/2)
Dated: 18-03-2021

Test: Tension 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	2.615	8	0.989	0.79	0.768	27.83	35.55	77690	79920	99230	102080	1.40	8.0	17.5	
2	1.507	6	0.751	0.44	0.443	15.34	18.35	76900	76380	91970	91350	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Qaisar Zulfiqar
XEN. GE (Army) - II, Okara

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

Client Reference: 6000/SM/3/E-6
Dated: 13-03-2021

SOM Lab Ref: 4069(Page-2/2)
Dated: 18-03-2021

Test: Tension Test & Bend Test
Guage 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	1.497	6	0.748	0.44	0.440	15.67	19.59	78530	78530	98210	98210	1.20	8.0	15.0	
2	0.658	4	0.496	0.20	0.193	7.43	9.17	81950	84920	101170	104840	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Note:-

Only Four Samples Received and Tested

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

Qaisar Zulfiqar
XEN. GE (Army) - II, Okara

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

Client Reference: 6000/SM/3/E-6
Dated: 15-03-2021

SOM Lab Ref: 4069(Page-1/2)
Dated: 18-03-2021

Test: Tension Test & Bend Test
Guage 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	1.503	6	0.750	0.44	0.442	15.80	19.69	79200	78840	98720	98270	1.10	8.0	13.8	
2	0.659	4	0.497	0.20	0.194	7.67	9.43	84530	87150	103980	107190	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Note:-

Only Four Samples Received and Tested

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

Syed Omer Shah
36 - D, Judicaial Colony, Phase II, Lahore

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

Client Reference: 4070-
Dated: 18-03-2021

SOM Lab Ref: 4070(Page-1/1)
Dated: 18-03-2021

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	1.505	6	0.750	0.44	0.442	15.55	19.54	77920	77570	97950	97510	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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. Tajmmal Farooq **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Resident Engineer, (AZEA) Sargodha Mianwali Road, Mianwali

Client Reference: RE/MWI-172 **SOM Lab Ref:** 4071 (Page-1/1)
Dated: 10-02-2021 **Dated:** 18-03-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar(ST 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	3.454	9	1.137	1.00	1.015	30.55	44.90	67380	66380	99030	97570	1.30	8.0	16.3	
2	3.465	9	1.138	1.00	1.018	30.89	45.48	68120	66920	100310	98540	1.40	8.0	17.5	
3	1.062	5	0.630	0.31	0.312	9.65	14.19	68680	68240	100950	100300	1.20	8.0	15.0	
4	1.063	5	0.630	0.31	0.312	9.60	14.17	68320	67880	100810	100160	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr. Tajmmal Farooq **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Resident Engineer, (AZEA) Sargodha Mianwali Road, Mianwali

Client Reference: RE/MWI-172 **SOM Lab Ref:** 4071 (Page-1/1)
Dated: 10-02-2021 **Dated:** 18-03-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar(ST 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	3.454	9	1.137	1.00	1.015	30.55	44.90	67380	66380	99030	97570	1.30	8.0	16.3	
2	3.465	9	1.138	1.00	1.018	30.89	45.48	68120	66920	100310	98540	1.40	8.0	17.5	
3	1.062	5	0.630	0.31	0.312	9.65	14.19	68680	68240	100950	100300	1.20	8.0	15.0	
4	1.063	5	0.630	0.31	0.312	9.60	14.17	68320	67880	100810	100160	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack
# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Shahid Engineers, **Test Performed By:** **Dr. /Engr.** S. Asasd Ali Gillani

Engineering & Contractprs, Faisalabad (Site: Apex Mall)

Client Reference: FX - 137 **SOM Lab Ref:** 4072Page-1/1)

Dated: 17-03-2021 **Dated:** 18-03-2021

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	2.598	8	0.986	0.79	0.763	29.73	35.02	83010	85950	97750	101210	1.10	8.0	13.8	
2	1.508	6	0.751	0.44	0.443	15.62	18.09	78280	77750	90690	90080	1.40	8.0	17.5	
3	0.657	4	0.496	0.20	0.193	6.60	8.12	72730	75370	89590	92840	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Six Samples Received and Tested

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

Zaheer Ahmad
Director, Planning & Development, KFUET, Rahim Yar Khan

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: KFUEIT/P&D/0038
Dated: 12-03-2021

SOM Lab Ref: 4073(Page-1/1)
Dated: 18-03-2021

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	1.501	6	0.749	0.44	0.441	12.90	19.22	64640	64490	96320	96100	1.30	8.0	16.3	
2	0.669	4	0.501	0.20	0.197	6.12	8.28	67450	68470	91280	92670	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Note:-

Only Four Samples Received and Tested

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

Taslim Alam
Resident Engineer, KKK Road, SWA, FATA

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

Client Reference: 3963/021/TA/01/134
Dated: 18-03-2021

SOM Lab Ref: 4074(Page-1/1)
Dated: 18-03-2021

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	0.679	4	0.505	0.20	0.200	6.03	9.07	66550	66550	100050	100050	1.40	8.0	17.5	
2	0.668	4	0.500	0.20	0.196	6.03	8.74	66550	67910	96340	98300	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	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

Test Performed by: .S. Asad Ali Gillani

Haris Ali Waseem
QA/QC Manager
Reon Energy, Solutions, Karachi
Testing of MS Sheet (2mm & 3mm)

Client Reference No.: QHSE/21/15 Dated: 15-03-2021

SOM Lab Ref: CED/SOM/4068 (Page 1/2) Dated: 18-03-2021

Test Type: Hardness Test

Sample Type: MS Sheet (2mm)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	MS Sheet 2mm,	HR – 67.50 – B

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

Test Performed by: .S. Asad Ali Gillani

Haris Ali Waseem
QA/QC Manager
Reon Energy, Solutions, Karachi
Testing of MS Sheet (2mm & 3mm)

Client Reference No.: QHSE/21/13 Dated: 11-03-2021

SOM Lab Ref: CED/SOM/4068 (Page 2/2) Dated: 18-03-2021

Test Type: Hardness Test

Sample Type: MS Sheet (3mm)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	MS Sheet 3mm	HR – 72.83 – B

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