Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/026 **Dated:** 29-07-2022

SOM Lab Ref: CED/SOM/694(Page-1/3) **Dated:** 29-07-2022

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

Sample Type: M S Deformed Bar (AFCO 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	3.948	25	25.31	491	503	279.20	382.50	569	556	779	761	30.0	200	15.0	
2	3.923	25	25.22	491	500	264.70	313.50	539	530	639	628	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/052/021/Retest **Dated:** 29-07-2022

SOM Lab Ref: CED/SOM/694(Page-2/3) **Dated:** 29-07-2022

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

Sample Type: M S Deformed Bar (AFCO 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	3.916	25	25.21	491	499	263.50	311.50	537	529	635	625	32.5	200	16.3	
2	3.916	25	25.20	491	499	274.50	383.20	559	551	781	769	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/054/026 **Dated:** 29-07-2022

SOM Lab Ref: CED/SOM/694(Page-3/3) **Dated:** 29-07-2022

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

Sample Type: M S Deformed Bar (AFCO 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	4.745	28	27.75	616	605	284.70	444.20	462	471	721	735	42.5	200	21.3	
2	4.744	28	27.74	616	604	261.70	407.50	425	434	662	675	42.5	200	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

28mm	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

Col Tajamal Hussain Riaz ® **Test Performed By:** **Dr. /Engr.** Nauman Khurram

RE ACE Limited.Multan.(Secretariat Office Building Multan & Allied Work)

Client Reference: ACE/RE/CSM/2022/284 **SOM Lab Ref:** 689 (Page-1/1)

Dated: 27-07-2022 **Dated:** 29-07-2022

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	1.562	6	0.764	0.44	0.459	15.26	20.87	76490	73330	104590	100260	1.30	8.0	16.3	FF
2	1.569	6	0.766	0.44	0.461	15.21	21.05	76240	72760	105510	100710	1.40	8.0	17.5	FF
3	1.541	6	0.759	0.44	0.453	12.95	17.55	64890	63030	87990	85460	1.60	8.0	20.0	Union
4	1.535	6	0.758	0.44	0.451	12.71	17.53	63720	62160	87880	85740	1.50	8.0	18.8	Union
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Lake City Roof Gardens
Lake City Housing (Pvt) Ltd Lahore

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

Client Reference: LCRG/Test/001
Dated: 27-07-2022

SOM Lab Ref: 690 (Page-1/2)
Dated: 29-07-2022

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	1.521	6	0.754	0.44	0.447	14.14	19.03	70870	69760	95400	93900	1.60	8.0	20.0	
2	1.584	6	0.770	0.44	0.466	13.71	19.16	68730	64890	96060	90700	1.70	8.0	21.3	
3	1.511	6	0.752	0.44	0.444	14.55	19.11	72910	72260	95800	94940	1.70	8.0	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Mubasher (Q.C Unison)

BEND TEST:

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

Note:-

Only Five Samples Received and Tested

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

Lake City Roof Gardens
Lake City Housing (Pvt) Ltd Lahore

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

Client Reference: LCRG/Test/002
Dated: 27-07-2022

SOM Lab Ref: 690 (Page-2/2)
Dated: 29-07-2022

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	2.623	8	0.991	0.79	0.771	23.65	35.02	66020	67650	97750	100160	1.30	8.0	16.3	
2	2.655	8	0.997	0.79	0.780	23.67	35.29	66080	66930	98520	99790	1.30	8.0	16.3	
3	2.614	8	0.989	0.79	0.768	23.11	32.82	64520	66360	91640	94260	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Mubasher (Q.C Unison)

BEND TEST:

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

Note:-

Only Five Samples Received and Tested

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

Tahir Mehmood
Chief Engr. Zaitoon,New Lahore City.Lahore

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

Client Reference: NLC/CE/054
Dated: 28-07-2022

SOM Lab Ref: 692 (Page-1/1)
Dated: 29-07-2022

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Supreme Mughal)

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	1.508	6	0.751	0.44	0.443	14.73	18.65	73830	73330	93510	92870	1.60	8.0	20.0	
2	1.510	6	0.752	0.44	0.444	15.09	18.57	75620	74940	93100	92260	1.40	8.0	17.5	
3	0.661	4	0.497	0.20	0.194	6.98	9.12	77000	79380	100610	103720	1.30	8.0	16.3	
4	0.663	4	0.498	0.20	0.195	7.14	9.04	78690	80710	99710	102260	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 Six Samples Received and Tested

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

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

Chief Engr. Zaitoon,New Lahore City.(Const Of O.H.W.T (Zaitoon City) By Arif Zamam Const Co.)

Client Reference: NLC/CE/0123 **SOM Lab Ref:** 693 (Page-1/1)

Dated: 26-07-2022 **Dated:** 29-07-2022

Test: Tension Test & Bend 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	1.483	6	0.745	0.44	0.436	16.18	19.95	81090	81830	99990	100910	1.00	8.0	12.5	
2	1.502	6	0.749	0.44	0.441	14.90	18.60	74700	74530	93250	93040	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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

Pakistan Atomic Energy Com. **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Project Dir (North-3) WASO-PAEC.(Const Of 120 Rooms Residential For Friendship At FFP Site)

Client Reference: WASO-CMD-LOI-158/C **SOM Lab Ref:** 695 (Page-2/2)

Dated: 05-07-2022 **Dated:** 29-07-2022

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	1.511	6	0.752	0.44	0.444	16.31	20.82	81750	81020	104340	103400	1.00	8.0	12.5	
2	1.490	6	0.747	0.44	0.438	15.36	20.10	77000	77350	100760	101220	1.20	8.0	15.0	
3	0.654	4	0.494	0.20	0.192	6.42	8.48	70820	73770	93530	97420	1.20	8.0	15.0	
4	0.668	4	0.500	0.20	0.196	6.85	8.87	75540	77080	97800	99790	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 Six Samples Received and Tested

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

Pakistan Atomic Energy Com. **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Project Dir (North-3) WASO-PAEC.(Const Of 120 Rooms Residential For Friendship At FFP Site)

Client Reference: WASO-CMD-LOI-158/C **SOM Lab Ref:** 695 (Page-1/2)

Dated: 05-07-2022 **Dated:** 29-07-2022

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Al-Moiz 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	1.509	6	0.751	0.44	0.443	13.25	19.37	66430	65980	97080	96420	1.50	8.0	18.8	
2	1.506	6	0.751	0.44	0.443	13.46	19.34	67450	66990	96930	96270	1.40	8.0	17.5	
3	0.674	4	0.502	0.20	0.198	7.03	8.72	77560	78350	96110	97080	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.93	8.72	76440	77600	96110	97570	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Note:-

Only Six Samples Received and Tested

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

Aqeel Aslam **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Manager Project FMH (Const. New Building At Fatima Memorial Hospital Lahore)

Client Reference: FMH/RAF/St/02 **SOM Lab Ref:** 696 (Page-1/1)

Dated: 25-07-2022 **Dated:** 29-07-2022

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	2.609	8	0.988	0.79	0.767	23.09	35.88	64460	66390	100170	103180	1.40	8.0	17.5	
2	2.615	8	0.989	0.79	0.768	23.14	36.03	64600	66450	100600	103480	1.40	8.0	17.5	
3	1.473	6	0.743	0.44	0.433	15.19	19.78	76130	77360	99130	100730	1.00	8.0	12.5	
4	1.502	6	0.749	0.44	0.441	13.05	18.01	65400	65260	90290	90080	1.30	8.0	16.3	
5	0.658	4	0.496	0.20	0.193	6.63	8.84	73070	75720	97460	100990	1.10	8.0	13.8	
6	0.661	4	0.497	0.20	0.194	6.32	8.51	69700	71850	93860	96770	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Test Performed by: .S. Asad Ali Gillani

Easy Prefabricated Homes
Lahore.,
Factory: M-3 Industrial City Faisalabad..

Client Reference No.: Nil Dated: 29-07-2022

SOM Lab Ref: CED/SOM/691(Page 1/1) Dated: 29-07-2022

Test Type: Load Test

Sample Type: Small Cement Block

Load Test Results

Sr No.	Sample Type	Sample Size	Ultimate Load (kN)	Compression Strength (Mpa)
1	Small Cement Block	100 x 100	95.7	9.57
2	Small Cement Block	100 x 100	79.7	7.97
3	Small Cement Block	100 x 100	85.0	8.50
4	Small Cement Block	100 x 100	113	11.30
5	Small Cement Block	100 x 100	70.2	7.02

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