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

Manager Civil,Nishat Mills Ltd.Lahore. Nishat Grouop

Client Reference: NDF/SST/004 **SOM Lab Ref:** 1516 (Page-1/1)

Dated: 29-12-2022 **Dated:** 02-01-2023

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

Guage Length: 200 mm **Sample Type:** MS Def Bar (Sheikhoo 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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.858	25	25.00	491	491	230.50	332.20	469	470	677	677	32.5	200	16.3	
2	3.856	25	25.01	491	491	232.20	333.00	473	473	678	678	35.0	200	17.5	
3	2.460	20	19.97	314	313	157.20	213.70	501	502	681	683	35.0	200	17.5	
4	2.458	20	19.97	314	313	160.50	215.20	511	513	685	688	40.0	200	20.0	
5	0.893	12	12.04	113	114	56.70	78.50	502	499	695	690	37.5	200	18.8	
6	0.895	12	12.05	113	114	57.20	78.50	506	502	695	689	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Arman Aslam
69-CCA Ph-9,DHA Lahore.

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

Client Reference: Nil
Dated: 02-01-2023

SOM Lab Ref: 1511 (Page-1/1)
Dated: 02-01-2023

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	2.810	8	1.026	0.79	0.826	27.62	38.48	77120	73760	107430	102750	1.30	8.0	16.3	
2	1.575	6	0.768	0.44	0.463	17.84	23.19	89420	84980	116240	110470	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	6.88	9.60	75880	77030	105890	107500	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only Three Samples Received and Tested

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

Engr. Naveed Sadiq

RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

Dated: 02-01-2023

SOM Lab Ref: 1512 (Page-1/1)

Dated: 02-01-2023

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	2.648	8	0.995	0.79	0.778	28.44	39.16	79400	80620	109340	111020	1.20	8.0	15.0	
2	2.656	8	0.997	0.79	0.781	27.42	38.79	76550	77440	108280	109530	1.20	8.0	15.0	
3	0.670	4	0.501	0.20	0.197	6.54	8.82	72170	73270	97230	98720	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	6.98	9.40	77000	77780	103640	104690	1.10	8.0	13.8	
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BEND TEST:

# 8	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

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

RE Orbit Housing.Lahore.(The Springs Apartment Homes)

SOM Lab

Client Reference: Nil **Ref:** 1513 (Page-1/1)

Dated: 02-01-2023 **Dated:** 02-01-2023

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	2.707	8	1.007	0.79	0.796	25.69	37.46	71720	71180	104580	103800	1.20	8.0	15.0	
2	2.670	8	1.000	0.79	0.785	23.65	36.95	66020	66450	103160	103820	1.40	8.0	17.5	
3	1.486	6	0.746	0.44	0.437	13.83	19.59	69340	69810	98210	98880	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	13.48	19.01	67550	68170	95290	96170	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	6.37	8.97	70260	71330	98920	100430	1.20	8.0	15.0	
6	0.672	4	0.501	0.20	0.197	6.32	8.97	69700	70760	98920	100430	1.10	8.0	13.8	
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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

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

Team Leader G3 Engg Consult.(Const.of Bldg GC Women University Sialkot On Acquired Of Land)

Client Reference: G3/0271/ **SOM Lab Ref:** 1520 (P-1/1)

Dated: 06-12-2022 **Dated:** 02-01-2023

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	2.624	8	0.991	0.79	0.771	26.81	35.07	74850	76690	97900	100310	1.20	8.0	15.0	
2	2.622	8	0.991	0.79	0.771	27.22	35.29	75980	77860	98520	100950	1.50	8.0	18.8	
3	1.488	6	0.746	0.44	0.437	14.68	19.75	73580	74080	98970	99650	1.50	8.0	18.8	
4	1.494	6	0.748	0.44	0.439	14.48	19.54	72560	72720	97950	98170	1.50	8.0	18.8	
5	0.663	4	0.498	0.20	0.195	6.07	8.12	66890	68600	89590	91890	1.30	8.0	16.3	
6	0.672	4	0.501	0.20	0.197	6.03	8.12	66550	67560	89590	90960	1.40	8.0	17.5	
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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

Raja Muhammad Aqeel **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Astt Dir.Building Section DHA Gujranwala.(Const Of Villas Block-A & D)

Client Reference: 111/3/AD Bldgs/Gen/31 **SOM Lab Ref:** 1521 (Page-1/1)

Dated: 27-12-2022 **Dated:** 02-01-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Siraj 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	0.674	4	0.502	0.20	0.198	5.78	8.69	63740	64380	95770	96740	1.40	8.0	17.5	
2	0.673	4	0.502	0.20	0.198	5.98	8.92	65990	66650	98360	99350	1.40	8.0	17.5	
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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:.Dr.S.Asad Ali Gillani

Muhammad Ali,
M/S Super Horse. (Horse Riding Aluminum & Steel Stirrups Used by Riders)

Client Reference No.: Nil Dated: 02-01-2023

SOM Lab Ref: CED/SOM/1514 (Page 1/1) Dated: 02-01-2023

Test Type: Load Test **Sample Type:** Aluminum & Steel Stirrups

oad Test Results

Sample/Pairs No.	Sample Type		Ultimate Breaking Load (kN)	Ultimate Breaking Load (Kg)	Remarks
1	Aluminum Stirrups (1689)	1a	8.50	866	Aluminum Stirrup Breaks from the Bottom part
		1b	9.50	968	Aluminum Stirrup Breaks from the Bottom part
2	Aluminum Stirrups (1689)	2a	8.70	867	Aluminum Stirrup Breaks from the Bottom part
		2b	7.00	714	Aluminum Stirrup Breaks from the Bottom part
3	Aluminum Stirrups (1689)	3a	7.00	714	Aluminum Stirrup Breaks from the Bottom part
		3b	8.50	866	Aluminum Stirrup Breaks from the Bottom part
4	Steel Stirrups (1568)	a	6.70	683	Aluminum Stirrup Breaks from the mid part
		b	3.70	377	Aluminum Stirrup Breaks from the mid Part

Test Performed by: .S. Asad Ali Gillani

Muhammad Bilal
Asstt Manager Quality Control,
Banu Mukhtar Steel (Pvt.) Ltd.

Client Reference No.: BMS-QA.QC/01-23 Dated: 02-01-2023

SOM Lab Ref: CED/SOM/1515 (Page 1/1) Dated: 02-01-2023

Test Type: Tension Test

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) **Specification**: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	17.8 x 0.5	8.90	3.17	3.52	356.18	395.0	24

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

Test Performed by: .S. Asad Ali Gillani

Muhammad Bilal
Asstt Manager Quality Control,
Banu Mukhtar Steel (Pvt.) Ltd.

Client Reference No.: BMS-QA.QC/03-23 Dated: 02-01-2023

SOM Lab Ref: CED/SOM/1517 (Page 1/1) Dated: 02-01-2023

Test Type: Tension Test Mark: (A)

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) **Specification**: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	18.7 x 0.5	9.35	3.80	4.05	406.41	433.15	22

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

Test Performed by: .S. Asad Ali Gillani

Muhammad Bilal
Asstt Manager Quality Control,
Banu Mukhtar Steel (Pvt.) Ltd.

Client Reference No.: BMS-QA.QC/02-23 Dated: 02-01-2023

SOM Lab Ref: CED/SOM/1518 (Page 1/1) Dated: 02-01-2023

Test Type: Tension Test Mark: (B)

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) **Specification**: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	18.7 x 0.5	9.35	3.52	3.75	376.47	401.06	24

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

Test Performed by: .S. Asad Ali Gillani

Muhammad Bilal
Asstt Manager Quality Control,
Banu Mukhtar Steel (Pvt.) Ltd.

Client Reference No.: BMS-QA.QC/04-23 Dated: 02-01-2023

SOM Lab Ref: CED/SOM/1519 (Page 1/1) Dated: 02-01-2023

Test Type: Tension Test Mark: (A)

Sample Type: Aluminum-Zinc Alloy Coated Sheet (t 0.5mm) **Specification**: ASTM-A 792

Tension Test Results

Sample No.	Sample Size	Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Strength (MPa)	Ultimate Strength (MPa)	Elongation (%)
1	18.7 x 0.5	9.35	3.75	3.90	401.06	417.11	22

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