StarchPack (Pvt.) Ltd. **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Lead Civil Lahore.(StarchPack Green Project At Kasur)

Client Reference: Nil **Dated :** 24-01-2023

SOM Lab Ref: CED/SOM/1635(Page-1/1) **Dated :** 24-01-2023

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	2.473	20	20.03	314	315	183.50	216.50	584	583	689	688	32.5	200	16.3	
2	2.475	20	20.04	314	315	182.20	216.50	580	578	689	687	35.0	200	17.5	
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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

Engr`s Muhammad Ahsan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM OZ Developers Lahore.(Const a High-rise Building Bahria Sky at Bahria Orchard ph-4 Lhr)

SOM Lab

Client Reference: Nil **Ref:** 1636 (Page-1/1)

Dated: 24-01-2023 **Dated:** 24-01-2023

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

Gauge Length: 8 inch **Sample Type:** 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	1.491	6	0.747	0.44	0.438	14.42	19.67	72300	72630	98610	99060	1.50	8.0	18.8	
2	0.665	4	0.498	0.20	0.195	5.20	8.07	57330	58800	89030	91310	1.40	8.0	17.5	
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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

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:** 1637 (Page-1/1)

Dated: 24-01-2023 **Dated:** 24-01-2023

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

Gauge Length: 8 inch **Sample Type:** 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	2.672	8	1.000	0.79	0.785	25.10	35.95	70070	70510	100370	101010	1.50	8.0	18.8	
2	2.672	8	1.000	0.79	0.785	24.59	35.17	68640	69080	98180	98810	1.60	8.0	20.0	
3	1.485	6	0.745	0.44	0.436	14.73	21.05	73830	74510	105510	106480	1.40	8.0	17.5	
4	1.460	6	0.739	0.44	0.429	14.55	20.82	72910	74780	104340	107010	1.40	8.0	17.5	
5	0.665	4	0.498	0.20	0.195	6.24	8.89	68800	70560	98020	100530	1.20	8.0	15.0	
6	0.669	4	0.501	0.20	0.197	6.42	8.87	70820	71900	97800	99290	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

Abdul Qadir
Lahore.

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

Client Reference: Nil
Dated: 24-01-2023

SOM Lab
Ref: 1638 (Page-1/1)
Dated: 24-01-2023

Test: Tension Test & Bend Test
Test Specification: ASTM-A-615 Deformed Bar (SJ Steel)

Gauge Length: 8 inch
Sample Type:

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	2.652	8	0.996	0.79	0.779	25.54	33.74	71290	72300	94200	95530	1.30	8.0	16.3	
2	2.633	8	0.993	0.79	0.774	25.66	33.86	71630	73110	94540	96490	1.40	8.0	17.5	
3	1.500	6	0.749	0.44	0.441	14.68	20.46	73580	73410	102550	102320	1.10	8.0	13.8	
4	1.491	6	0.747	0.44	0.438	14.58	20.39	73070	73400	102190	102660	1.30	8.0	16.3	
5	0.667	4	0.500	0.20	0.196	6.70	8.61	73850	75360	94990	96930	1.00	8.0	12.5	
6	0.673	4	0.502	0.20	0.198	7.00	8.84	77230	78010	97460	98440	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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Sector L)

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

Client Reference: 111/15/AD/RS/Sec L/35
Dated: 24-01-2023

SOM Lab
Ref: 1639 (Page-1/1)
Dated: 24-01-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Kamran 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	2.665	8	0.998	0.79	0.783	26.32	35.27	73480	74140	98470	99350	1.40	8.0	17.5	
2	2.653	8	0.997	0.79	0.780	26.83	35.55	74900	75860	99230	100510	1.30	8.0	16.3	
3	1.490	6	0.747	0.44	0.438	13.37	19.44	67040	67350	97440	97880	1.20	8.0	15.0	
4	1.490	6	0.747	0.44	0.438	13.32	19.44	66780	67090	97440	97880	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	6.03	8.99	66550	67560	99150	100660	1.10	8.0	13.8	
6	0.672	4	0.501	0.20	0.197	6.03	8.99	66550	67560	99150	100660	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

Ch.Rizwan Mushtaq **Test Performed By:** **Dr. /Engr.** Waseem Abbas
RE Nespak,Gujrat.(Flyover at N-05 on G.T Rd to Gujrat Dinga Rd & Flyover at GT RD Kathala Gujrat)

SOM Lab

Client Reference: 4364/08/CRM/14/01/2023/33 **Ref:** 1640 (Page-1/1)
Dated: 23-01-2023 **Dated:** 24-01-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittihad 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	1.529	6	0.756	0.44	0.449	16.16	19.95	80990	79360	99990	97990	1.10	8.0	13.8	
2	1.524	6	0.755	0.44	0.448	15.62	19.59	78280	76880	98210	96450	1.20	8.0	15.0	
3	0.675	4	0.502	0.20	0.198	5.61	8.15	61830	62450	89930	90840	1.50	8.0	18.8	
4	0.674	4	0.502	0.20	0.198	5.71	8.21	62950	63590	90490	91400	1.50	8.0	18.8	
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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

Manohar Lal **Test Performed By:** **Dr. /Engr.** Wasim Abbas

RE Nespak,Gujrat.(Bridge Over U.J.C Canal & Bhimber Nullah on Gujrat Bypass N-5 Industrial Area-II)

SOM Lab

Client Reference: 103/GF/ML/Lab/03 **Ref:** 1641 (Page-1/1)

Dated: 22-01-2023 **Dated:** 24-01-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittehad 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	1.580	6	0.769	0.44	0.464	15.34	19.52	76900	72920	97850	92790	1.30	8.0	16.3	
2	1.575	6	0.768	0.44	0.463	15.44	19.62	77410	73570	98360	93470	1.20	8.0	15.0	
3	0.672	4	0.501	0.20	0.197	5.93	8.72	65420	66420	96110	97570	1.40	8.0	17.5	
4	0.672	4	0.501	0.20	0.197	5.98	8.74	65990	66990	96340	97800	1.40	8.0	17.5	
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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