Engr. Farrukh Alvi **Test Performed By:** **Dr. /Engr.** Irfan Ul Hassan

Dy. General Manager Works.Habib Rafiq Engineering (Pvt.) Ltd.(101 Tower,Lahore)

Client Reference: HRLE/SKG/2024/Kamran/172 **SOM Lab Ref:** 140 (P-1/1)

Dated: 01-11-2024 **Dated:** 01-11-2024

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

Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.979	25	25.41	491	507	280.00	366.70	570	553	747	724	30.0	200	15.0	
2	3.982	25	25.41	491	507	252.00	355.20	513	497	723	701	32.5	200	16.3	
3	0.886	12	11.99	113	113	64.00	74.00	566	568	655	656	25.0	200	12.5	
4	0.886	12	11.99	113	113	59.80	77.20	529	530	683	685	25.0	200	12.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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. Saeed Ahmad, RE **Test Performed By:** **Dr. /Engr.** Irfan Ul Hassan

Master Consulting Engineers.(Revamping Of Services Hospital Lahore) Group No.3

Client Reference: Revamping/Services/Camp/100 **SOM Lab Ref:** 136 (Page-1/1)

Dated: 31-10-2024 **Dated:** 01-11-2024

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	2.670	8	1.000	0.79	0.785	25.79	33.83	72000	72460	94450	95050	1.40	8.0	17.5	
2	2.667	8	0.999	0.79	0.784	25.76	33.97	71920	72470	94820	95550	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Waqas Ali
Variant Gulberg 2, Lahore.

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

Client Reference: VA/29/143
Dated: 01-11-2024

SOM Lab Ref: 137 (Page-1/1)
Dated: 01-11-2024

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	1.460	6	0.739	0.44	0.429	13.53	18.32	67810	69540	91820	94170	1.10	8.0	13.8	
2	1.551	6	0.762	0.44	0.456	14.14	19.47	70870	68380	97590	94170	1.40	8.0	17.5	
3	0.653	4	0.494	0.20	0.192	6.39	8.36	70480	73420	92180	96020	1.40	8.0	17.5	
4	0.655	4	0.494	0.20	0.192	6.37	8.38	70260	73190	92400	96250	1.30	8.0	16.3	
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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

Haseeb Afzal
Project Manager Residential House in Lahore.

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

Client Reference: Nil
Dated: 31-10-2024

SOM Lab Ref: 138 (Page-1/1)
Dated: 01-11-2024

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	1.522	6	0.754	0.44	0.447	12.76	19.22	63970	62970	96320	94810	1.20	8.0	15.0	
2	1.524	6	0.755	0.44	0.448	12.92	19.34	64740	63580	96930	95200	1.10	8.0	13.8	
3	0.665	4	0.498	0.20	0.195	6.83	9.02	75320	77250	99480	102030	1.00	8.0	12.5	
4	0.667	4	0.500	0.20	0.196	6.75	8.97	74420	75940	98920	100940	1.20	8.0	15.0	
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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