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

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: QC/HQ/CIVIL/198 **Dated:** 20-03-2024

SOM Lab Ref: CED/SOM/3838(Page-1/1) **Dated:** 20-03-2024

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	3.811	25	24.88	491	486	240.20	322.70	489	495	657	664	32.5	200	16.3	
2	3.831	25	24.93	491	488	245.20	331.00	500	503	674	679	37.5	200	18.8	
3	2.455	20	19.95	314	313	156.70	210.50	499	502	670	674	30.0	200	15.0	
4	2.493	20	20.11	314	318	158.00	216.70	503	498	690	683	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

Note:-

Only Six Samples Received and Tested

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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/AD/RS/Lab/Pkg-2A/2072
Dated: 19-03-2024

SOM Lab Ref: 3836 (Page-1/2)
Dated: 20-03-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (FF 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	0.668	4	0.500	0.20	0.196	6.83	9.14	75320	76850	100830	102890	1.50	8.0	18.8	
2	0.670	4	0.501	0.20	0.197	6.78	9.07	74750	75890	100050	101570	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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/AD/RS/Lab/Pkg-2A/2073
Dated: 19-03-2024

SOM Lab Ref: 3836 (Page-2/2)
Dated: 20-03-2024

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

Test Specification: ASTM-A-615
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	0.644	4	0.491	0.20	0.189	6.29	8.38	69360	73400	92400	97780	1.20	8.0	15.0	
2	0.653	4	0.494	0.20	0.192	6.12	8.38	67450	70260	92400	96250	1.00	8.0	12.5	
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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

Irfan Masood
Hunza Steel Pvt. Ltd Lahore

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

Client Reference: Nil
Dated: 20-03-2024

SOM Lab Ref: 3837 (Page-1/1)
Dated: 20-03-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Hunza 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	0.661	4	0.497	0.20	0.194	5.73	8.38	63180	65130	92400	95260	1.10	8.0	13.8	
2	0.655	4	0.494	0.20	0.192	5.83	8.38	64300	66980	92400	96250	1.20	8.0	15.0	
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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

Azhar Sameen
Khan Dairy Form

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

Client Reference: Nil
Dated: 20-03-2024

SOM Lab Ref: 3839 (Page-1/1)
Dated: 20-03-2024

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	1.511	6	0.752	0.44	0.444	13.66	20.34	68470	67850	101940	101020	1.50	8.0	18.8	
2	1.516	6	0.754	0.44	0.446	13.66	20.36	68470	67550	102040	100660	1.30	8.0	16.3	
3	0.669	4	0.501	0.20	0.197	5.68	8.43	62610	63570	92960	94380	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	5.68	8.41	62610	63250	92740	93680	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

Asstt: Executive Engr-I **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

CCD No.1Pak PWD Lhr.(Const of hajj Complex,Lahore)

Client Reference: AEE-I/CCD-I/LHR/166 **SOM Lab Ref:** 3840 (Page-1/1)

Dated: 10-11-2023 **Dated:** 20-03-2024

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	2.575	8	0.982	0.79	0.757	22.88	33.66	63890	66680	93970	98070	1.50	8.0	18.8	
2	2.563	8	0.979	0.79	0.753	22.60	33.35	63090	66190	93120	97690	1.70	8.0	21.3	
3	1.462	6	0.740	0.44	0.430	13.17	19.11	66020	67550	95800	98030	1.50	8.0	18.8	
4	1.455	6	0.738	0.44	0.428	13.27	19.16	66530	68390	96060	98750	1.50	8.0	18.8	
5	1.021	5	0.618	0.31	0.300	9.50	12.86	67590	69850	91520	94570	1.20	8.0	15.0	
6	1.017	5	0.617	0.31	0.299	9.09	12.54	64690	67070	89200	92480	1.10	8.0	13.8	
7	0.664	4	0.498	0.20	0.195	6.09	8.33	67110	68830	91840	94190	1.40	8.0	17.5	
8	0.672	4	0.501	0.20	0.197	6.27	8.48	69130	70190	93530	94950	1.30	8.0	16.3	
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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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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