

Prof . Dr. Aman Ullah Khan

Acting Project Director, Air University, Multan Campus, 4-5th Floor, Khan Centre, Abdali Road, Multan

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: MUX/AUMC/AB1/2018/93

Dated: 20-06-2019

SOM Lab

Ref: 995(P-1/1)

Dated: 21-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Itteaq 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	2.730	8	1.011	0.79	0.802	29.53	36.24	82440	81210	101170	99660	1.10	8.0	13.8	
2	2.699	8	1.005	0.79	0.793	29.99	36.06	83730	83410	100660	100280	1.10	8.0	13.8	
3	1.518	6	0.754	0.44	0.446	17.07	19.72	85590	84430	98870	97540	1.00	8.0	12.5	
4	1.536	6	0.758	0.44	0.451	16.48	19.98	82620	80610	100150	97700	1.10	8.0	13.8	
5	1.054	5	0.628	0.31	0.310	11.93	14.19	84850	84850	100950	100950	1.10	8.0	13.8	
6	1.035	5	0.622	0.31	0.304	11.62	14.34	82680	84310	102040	104050	0.90	8.0	11.3	
7	0.662	4	0.498	0.20	0.195	5.12	7.77	56430	57880	85660	87850	1.30	8.0	16.3	
8	0.664	4	0.498	0.20	0.195	5.15	7.73	56770	58220	85210	87390	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web www.uet-civil.edu.pk

Anis Ahmad
Senior Engineer, Mansoor Mazhar & Associates, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: MMA/PVV/5M.H/S.T/02

SOM Lab

Ref: 996(P-1/1)

Dated: 21-06-2019

Dated: 22-06-2019

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	1.569	6	0.766	0.44	0.461	19.67	22.70	98610	94120	113790	108610	0.80	8.0	10.0	
2	1.554	6	0.763	0.44	0.457	17.04	20.64	85430	82250	103470	99620	0.70	8.0	8.8	
3	0.665	4	0.498	0.20	0.195	5.93	9.04	65420	67100	99710	102260	1.20	8.0	15.0	
4	0.657	4	0.496	0.20	0.193	5.86	9.02	64640	66980	99480	103090	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

By Dir MTL, Infra Dev Works Prism-9. (Pkg-II , III & IV) - DHA , Ph-IX - (M/S NLC)

Client Reference: 408/241/E/Lab/616/1307

SOM Lab

Ref: 997(Page-1/2)

Dated: 20-06-2019

Dated: 21-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kisan 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	2.723	8	1.009	0.79	0.800	28.08	35.55	78400	77420	99230	97990	1.00	8.0	12.5	
2	2.731	8	1.011	0.79	0.803	28.13	34.76	78550	77270	97040	95470	1.00	8.0	12.5	
3	2.515	8	0.970	0.79	0.739	28.85	35.14	80540	86100	98100	104870	0.90	8.0	11.3	
4	2.515	8	0.970	0.79	0.739	28.44	34.83	79400	84880	97240	103950	0.90	8.0	11.3	
5	2.512	8	0.969	0.79	0.738	28.54	35.02	79680	85300	97750	104640	1.00	8.0	12.5	
6	2.519	8	0.971	0.79	0.740	28.54	35.04	79680	85070	97810	104420	1.20	8.0	15.0	
7	1.497	6	0.748	0.44	0.440	16.11	20.95	80730	80730	105000	105000	1.10	8.0	13.8	
8	1.496	6	0.748	0.44	0.440	16.00	20.92	80220	80220	104850	104850	1.10	8.0	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

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

Maj Adnan khalid®

Test Performed By: Dr. /Engr.

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By Dir MTL, Infra Dev Works Prism-9. (Pkg-II , III & IV) - DHA , Ph-IX - (M/S NLC)

Client Reference: 408/241/E/Lab/616/1307

SOM Lab

Ref: 997(Page-2/2)

Dated: 20-06-2019

Dated: 21-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kisan 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	0.652	4	0.494	0.20	0.192	7.10	8.82	78350	81620	97230	101290	0.90	8.0	11.3	
2	0.659	4	0.497	0.20	0.194	7.26	9.02	80040	82510	99480	102560	0.90	8.0	11.3	
3	0.661	4	0.497	0.20	0.194	7.03	8.84	77560	79960	97460	100470	1.00	8.0	12.5	
4	0.654	4	0.494	0.20	0.192	7.24	8.82	79810	83140	97230	101290	1.00	8.0	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

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