

Engr. Irfan Salman Ch.
Project: Mall of Sahiwal

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: 1158/MOS/SWL

SOM Lab

Ref: 910(Page-1/1)

Dated: 21-05-2019

Dated: 29-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(Kamran 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	2.690	8	1.004	0.79	0.791	26.40	34.73	73710	73620	96960	96830	1.20	8.0	15.0	
2	1.504	6	0.750	0.44	0.442	17.13	21.87	85840	85450	109600	109100	1.10	8.0	13.8	
3	0.671	4	0.501	0.20	0.197	5.50	8.23	60700	61630	90720	92100	1.30	8.0	16.3	
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BEND TEST:

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

Engr. Irfan Salman Ch.
Project: Mall of Sahiwal

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: 1159/MOS/SWL
Dated: 02-05-2019
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 910(Page-2/2)
Dated: 29-05-2019
Test Specification: ASTM-A-615
Sample Type: Deformed Bar(Bilal Steel 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	2.684	8	1.002	0.79	0.789	32.72	37.84	91350	91470	105640	105770	1.20	8.0	15.0	
2	1.543	6	0.759	0.44	0.453	16.64	19.24	83390	81000	96420	93650	1.10	8.0	13.8	
3	0.664	4	0.498	0.20	0.195	6.29	8.66	69360	71140	95550	98000	1.30	8.0	16.3	
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BEND TEST:

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

Assistant Civil Engg-(N),
SIE -III Gujranwala

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: SIC/SIEG -III (EPZ)/270

SOM Lab

Ref: 911(Page-1/1)

Dated: 28-05-2019

Dated: 29-05-2019

Test: Tension 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	0.653	4	0.494	0.20	0.192	6.03	8.46	66550	69320	93300	97190	1.40	8.0	17.5	
2	0.652	4	0.494	0.20	0.192	5.83	8.43	64300	66980	92960	96840	1.40	8.0	17.5	
3	0.653	4	0.494	0.20	0.192	5.91	8.38	65200	67920	92400	96250	1.30	8.0	16.3	
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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

Ahmad Associates
Lahore.

Test Performed By: Dr. /Engr. M. Rizwan Azam

Client Reference: nil
Dated: 29-05-2019

SOM Lab
Ref: 912(Page-1/1)
Dated: 29-05-2019

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

Test Specification:
Sample Type:

ASTM-A-615
Deformed Bar(AFCCO 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	1.448	6	0.736	0.44	0.426	14.53	18.32	72810	75210	91820	94840	1.20	8.0	15.0	
2	1.498	6	0.748	0.44	0.440	14.73	18.67	73830	73830	93610	93610	1.10	8.0	13.8	
3	0.657	4	0.496	0.20	0.193	5.56	7.67	61270	63490	84530	87600	1.30	8.0	16.3	
4	0.675	4	0.502	0.20	0.198	5.50	7.49	60700	61320	82620	83460	1.20	8.0	15.0	
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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.

Nauman
Khurram

By Dir MTL, Const. of 1-Kanal Villas at DRGCC PH-III, DHA Ph-VI (M/S Linkers)

Client Reference: 408/241/E/Lab/547/06A

SOM Lab

Ref: 903(Page-1/1)

Dated: 28-05-2019

Dated: 29-05-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq 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	2.629	8	0.992	0.79	0.773	22.09	32.03	61670	63030	89420	91380	1.60	8.0	20.0	
2	2.615	8	0.989	0.79	0.768	22.60	33.05	63090	64900	92260	94900	1.50	8.0	18.8	
3	2.700	8	1.005	0.79	0.793	22.22	32.90	62040	61810	91840	91490	1.30	8.0	16.3	
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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