

Asim Raza Hashmat Khan  
Lahore

Test Performed By: Dr. /Engr. M RizwanRiaz

Client Reference: nil

SOM Lab

Ref: 358(Page-1/1)

Dated: 26-02-2019

Dated: 26-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	18.37	21.99	92070	92920	110210	111220	1.10	8.0	13.8	
2	0.712	4	0.516	0.20	0.209	7.56	9.94	83410	79820	109600	104880	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Engr M. Naveed Sadiq  
Resident Engineer, Orbit Housing, Lahore

Test Performed By: Dr. /Engr. Usman Akmal

Client Reference: Nil

SOM Lab

Ref: 359(Page-1/1)

Dated: 26-02-2019

Dated: 26-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.601	8	0.986	0.79	0.764	25.48	33.20	71150	73570	92690	95840	1.70	8.0	21.3	
2	2.592	8	0.985	0.79	0.762	25.56	33.54	71350	73970	93630	97070	1.70	8.0	21.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Ghulam Shabbir

Test Performed By:

Dr. /Engr.

Bilal A Khokhar

Assistant Engineer/Workshops, Pakistan Railways Moghalpura, Lahore

Client Reference: WS/W/94 (2017-18)

SOM Lab

Ref:

360 (Page-1/1)

Dated: 26- 01-2019

Dated:

26-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.486	6	0.746	0.44	0.437	15.75	18.76	78940	79490	94020	94660	1.10	8.0	13.8	
2	1.506	6	0.751	0.44	0.443	15.41	19.98	77260	76730	100150	99470	1.20	8.0	15.0	
3	0.678	4	0.503	0.20	0.199	6.09	9.40	67110	67450	103640	104160	1.30	8.0	16.3	
4	0.699	4	0.511	0.20	0.205	6.49	10.06	71610	69860	110950	108240	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Ubaid A Mughal

Dy Dir MTL, Infra Dev Works of Ph -IX (Pkg-II, III & IV) - DHA Lahore - (M/S NLC)

Client Reference: 408/241/E/Lab/456/998

SOM Lab

Ref: 361(Page-2/2)

Dated: 22-02-2019

Dated: 26-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar ( SJ

Gauge Length: 8 inch

Sample Type:

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.658	4	0.496	0.20	0.193	6.29	9.17	69360	71870	101170	104840	1.40	8.0	17.5	
2	0.641	4	0.489	0.20	0.188	6.24	9.17	68800	73190	101170	107630	1.40	8.0	17.5	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Maj Adnan khalid®

Test Performed By: Dr. /Engr. Ubaid A Mughal

Dy Dir MTL, Infra Dev Works of Ph -IX (Pkg-II, III & IV) - DHA Lahore - (M/S NLC)

Client Reference: 408/241/E/Lab/456/975

SOM Lab

Ref: 361(Page-1/2)

Dated: 21-02-2019

Dated: 26-02-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.582	8	0.983	0.79	0.759	23.85	33.23	66590	69310	92770	96560	1.20	8.0	15.0	
2	2.600	8	0.986	0.79	0.764	22.94	32.64	64030	66210	91120	94220	1.10	8.0	13.8	
3	1.475	6	0.743	0.44	0.433	14.58	20.56	73070	74250	103060	104730	1.30	8.0	16.3	
4	1.479	6	0.744	0.44	0.435	14.88	20.31	74600	75460	101780	102950	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)

Syed Mohsin Ali  
 Manager QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Test Performed By: Dr. /Engr.

QasimKhanUbaid A Mughal

Client Reference: QA/QC-Steel-1287

Dated: 25-02-2019

SOM Lab

Ref: 362(Page-1/1)

Dated: 26-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Mughal Supreme 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.650	4	0.493	0.20	0.191	7.36	9.23	81160	84990	101730	106520	1.00	8.0	12.5	
2	0.657	4	0.496	0.20	0.193	7.37	9.14	81270	84220	100830	104490	1.10	8.0	13.8	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Three Samples Received and Tested</b>

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Faisal MubarikShabbir Khan,  
(Retd.)

Test Performed By: Dr. /Engr. Bilal A. Khokhar

TBt, TI (M), Lieutenant Colonel, Additional Director Development, DHA Phaes-XI (Rehbar) Lahore

Client Reference: 700/3/Mosque A/Sec-I/Ph-XI/Projs/636

SOM Lab

Ref: 363(Page-1/1)

Dated: 26-02-2019

Dated: 26-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Saeed Kasur 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.623	8	0.991	0.79	0.771	23.34	38.71	65170	66780	108060	110720	1.20	8.0	15.0	
2	2.746	8	1.014	0.79	0.807	24.26	38.23	67730	66310	106720	104470	1.40	8.0	17.5	
3	1.510	6	0.752	0.44	0.444	12.97	20.23	65000	64410	101420	100510	1.30	8.0	16.3	
4	1.506	6	0.751	0.44	0.443	12.74	20.29	63870	63440	101680	100990	1.20	8.0	15.0	
5	0.667	4	0.500	0.20	0.196	6.34	8.58	69920	71350	94650	96580	1.40	8.0	17.5	
6	0.621	4	0.481	0.20	0.182	5.83	8.18	64300	70660	90150	99070	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Nine Samples Received and Tested</b>
# 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](http://www.uet-civil.edu.pk)