

Muhammad Qasim Bhatti

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Director, Construction of Hussain Bibi Memorial Cardiac & General Hospital, Lahore

Client Reference: AIC/2019/GW/03

SOM Lab

Ref: 986(Page-1/1)

Dated: 20-06-2019

Dated: 20-06-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.688	8	1.003	0.79	0.790	27.22	35.95	75980	75980	100370	100370	1.40	8.0	17.5	
2	2.664	8	0.998	0.79	0.783	26.20	34.96	73140	73790	97610	98480	1.70	8.0	21.3	
3	1.443	6	0.735	0.44	0.424	16.08	19.72	80580	83620	98870	102600	1.10	8.0	13.8	
4	1.486	6	0.746	0.44	0.437	16.06	19.90	80480	81030	99740	100420	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	5.89	8.12	64970	66300	89590	91420	1.50	8.0	18.8	
6	0.635	4	0.488	0.20	0.187	5.37	7.61	59240	63360	83970	89810	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)

Shabbir H Sandhu

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Project Manager-, TYPASA-ASIAN Consulting Engineers (J.V), Lahore

Client Reference: TYPASA-PK-2487-19

SOM Lab

987(Page-

Ref:

1/1)

Dated: 19-06-019

Dated:

20-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.549	6	0.761	0.44	0.455	14.55	18.78	72910	70510	94120	91020	1.20	8.0	15.0	
2	1.548	6	0.761	0.44	0.455	16.00	19.54	80220	77580	97950	94720	1.30	8.0	16.3	
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**BEND TEST:**

# 6	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)

Khalid Latif Sheikh  
PMCS Manager, MAK Associates, Lahore

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

Client Reference: MAK/PAF/SV-GL/TB-008

SOM Lab Ref: 988(Page-1/1)

Dated: 19-06-019

Dated: 20-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.515	6	0.753	0.44	0.445	13.30	20.39	66680	65930	102190	101040	1.40	8.0	17.5	
2	1.526	6	0.755	0.44	0.448	13.63	20.46	68320	67100	102550	100720	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.52	9.68	71940	73040	106790	108420	1.00	8.0	12.5	
4	0.677	4	0.503	0.20	0.199	6.22	9.43	68570	68920	103980	104500	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)

Hafiz Muhammad Wasif Iqbal  
 Project Manager - Civil, Kohinoor Textile Mills (Pvt) Ltd. Rawalpindi

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

Client Reference: nil

SOM Lab Ref: 989(Page-1/1)

Dated: 20-06-019

Dated: 20-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.606	8	0.988	0.79	0.766	25.05	34.17	69920	72110	95390	98380	1.10	8.0	13.8	
2	2.573	8	0.981	0.79	0.756	24.74	33.81	69070	72180	94400	98640	1.50	8.0	18.8	
3	0.648	4	0.492	0.20	0.190	6.09	8.61	67110	70640	94990	99990	1.40	8.0	17.5	
4	0.641	4	0.489	0.20	0.188	5.96	8.51	65760	69960	93860	99850	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>
# 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.

S. Asad Ali Gillani

By Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: 408/241/E/Lab/611/2756

SOM Lab

Ref: 990(Page-1/1)

Dated: 18-06-2019

Dated: 20-06-2019

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.448	6	0.736	0.44	0.426	13.35	18.20	66940	69140	91210	94200	1.20	8.0	15.0	
2	1.470	6	0.742	0.44	0.432	13.35	18.20	66940	68180	91210	92890	1.30	8.0	16.3	
3	0.655	4	0.494	0.20	0.192	5.86	8.35	64640	67330	92060	95900	1.50	8.0	18.8	
4	0.654	4	0.494	0.20	0.192	5.96	8.38	65760	68500	92400	96250	1.50	8.0	18.8	
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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.

S. Asad Ali  
Gillani

By Dir MTL, Infra Dew Works at Sector -R, Pkg - 1, DHA Ph-IX - (M/S DHA C - Coy)

Client Reference: 408/241/E/Lab/612/4580

SOM Lab

Ref: 991(Page-1/1)

Dated: 19-06-2019

Dated: 20-06-2019

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	0.647	4	0.492	0.20	0.190	6.60	10.19	72730	76560	112410	118330	1.10	8.0	13.8	
2	0.644	4	0.491	0.20	0.189	6.52	10.16	71940	76130	112070	118590	1.00	8.0	12.5	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)

M/S Chishti Bros.  
Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: CBA-1/111-4032

SOM Lab  
Ref:

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1/1)

Dated: 20-06-019

Dated:

20-06-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.599	4	0.473	0.20	0.176	6.49	7.95	71610	81370	87680	99640	1.10	8.0	13.8	
2	0.594	4	0.472	0.20	0.175	6.52	7.72	71940	82220	85100	97250	1.10	8.0	13.8	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  <b>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)