

New Metro City  
Housing Scheme Manager QA/QC Mandi Bahauddin.

**Test Performed By:** Dr. /Engr. Irfan UI Hassan

**Client Reference:** NMC/MBD/6

**SOM Lab**

**Ref:** 1776 (Page-1/1)

**Dated:** 16-02-2023

**Dated:** 17-02-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.650	8	0.996	0.79	0.779	25.48	34.98	71150	72150	97670	99050	1.20	8.0	15.0	
2	2.654	8	0.997	0.79	0.780	26.40	35.07	73710	74650	97900	99150	1.30	8.0	16.3	
3	1.478	6	0.743	0.44	0.434	14.98	19.37	75110	76150	97080	98420	1.30	8.0	16.3	
4	1.516	6	0.754	0.44	0.446	13.86	19.29	69490	68560	96670	95370	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	5.81	8.31	64080	65380	91610	93480	1.40	8.0	17.5	
6	0.670	4	0.501	0.20	0.197	5.93	8.31	65420	66420	91610	93010	1.40	8.0	17.5	
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**BEND TEST:**

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

Naveed Ahmad  
Asst Dir Lab DHA Bahawalpur Cantonment.(Masjid Sector-B)

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: 530/QC/MTL

SOM Lab

Ref: 1778 (Page-1/1)

Dated: 17-02-2023

Dated: 17-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.628	8	0.991	0.79	0.772	26.61	34.66	74280	76010	96760	99010	1.40	8.0	17.5	
2	1.477	6	0.743	0.44	0.434	13.46	19.16	67450	68380	96060	97390	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	6.32	8.00	69700	71120	88240	90040	1.40	8.0	17.5	
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**BEND TEST:**

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

Asif Pervaiz Butt

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

RE Ritz Developers Pvt.Ltd (AYQ Developers Pvt.Ltd) Lahore.

Client Reference: Nil

SOM Lab

Ref:

1779 (Page-1/1)

Dated: 17-02-2023

Dated:

17-02-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF 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	1.504	6	0.750	0.44	0.442	14.09	20.25	70620	70300	101530	101070	1.40	8.0	17.5	
2	1.505	6	0.750	0.44	0.442	14.27	19.44	71540	71210	97440	97000	1.30	8.0	16.3	
3	1.502	6	0.749	0.44	0.441	15.62	19.75	78280	78100	98970	98750	1.40	8.0	17.5	
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**BEND TEST:**

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

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

Engineer Muhammad Irfan  
Asst Dir Infra. DHA Gujranwala.(Sector G)

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

Client Reference: 111/15/AD/RS/Pkg-2B/1296

SOM Lab

Ref: 1780 (Page-1/1)

Dated: 16-02-2023

Dated: 17-02-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Sheikhoo 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	2.663	8	0.998	0.79	0.783	26.15	34.61	73000	73650	96620	97480	1.50	8.0	18.8	
2	2.655	8	0.997	0.79	0.780	25.08	34.25	70010	70910	95620	96850	1.50	8.0	18.8	
3	1.503	6	0.750	0.44	0.442	15.01	19.52	75210	74870	97850	97410	1.10	8.0	13.8	
4	1.497	6	0.748	0.44	0.440	14.37	19.24	72050	72050	96420	96420	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.57	8.92	72510	73610	98360	99860	1.20	8.0	15.0	
6	0.672	4	0.501	0.20	0.197	6.49	8.94	71610	72700	98580	100080	1.20	8.0	15.0	
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**BEND TEST:**

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

Engineer Waqar Hussain  
M.SC Civil Engg. CEO Kaghaan concrete sargodha.

**Test Performed By:** Dr. /Engr. S Asad Ali Giillani

**Client Reference:** Nil  
**Dated:** 17-02-2023  
**Test:** Tension Tests  
**Guage Length:** 50 mm

**Test Specification:** ASTM-A - 82  
**Sample Type:** H T Wire

**SOM Lab Ref:** 1777(Page-1/1)  
**Dated:** 17-02-2023

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.151	5	4.92	19.63	19.00	32.70	36.00	1666	1722	1834	1895	5.0	50	10.0	
2	0.106	4	4.14	12.57	13.45	22.70	25.00	1806	1689	1989	1860	7.5	50	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

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

