

Engr. Hassan Mehmood

Test Performed By: Dr. /Engr. Yousaf

RE G3 Engg Consult.(Const.of DHA Newlife Residency Appartments at 273/1Q Block Ph-II DHA.Lhr)

Client Reference: G3/DHA-NLD/RE/053A

SOM Lab

Ref: 130 (Page-1/1)

Dated: 07-04-2022

Dated: 08-04-2022

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	2.708	8	1.007	0.79	0.796	26.55	34.10	74140	73580	95190	94480	1.60	8.0	20.0	
2	2.604	8	0.987	0.79	0.765	27.37	36.51	76410	78910	101940	105270	1.40	8.0	17.5	
3	1.512	6	0.752	0.44	0.444	14.39	20.00	72150	71500	100250	99350	1.30	8.0	16.3	
4	1.508	6	0.751	0.44	0.443	14.60	20.03	73170	72670	100400	99720	1.30	8.0	16.3	
5	0.654	4	0.494	0.20	0.192	6.85	9.14	75540	78690	100830	105030	1.00	8.0	12.5	
6	0.655	4	0.494	0.20	0.192	6.68	8.79	73630	76700	96900	100930	1.00	8.0	12.5	
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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)

Syed Mansoob Ali Zaidi

Test Performed By:

Dr. /Engr.

Rehan Ashraf

Team Laeder IBC.(Rehabilitation And Modernization Of Islam Bridge)

Client Reference: IBC/16-1/1599

SOM Lab

Ref:

131 (Page-1/1)

Dated: 07-04-2022

Dated:

08-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Agha 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	0.664	4	0.498	0.20	0.195	7.05	8.84	77790	79780	97460	99960	1.10	8.0	13.8	
2	0.668	4	0.500	0.20	0.196	7.44	9.09	82060	83730	100270	102320	1.20	8.0	15.0	
3	0.651	4	0.493	0.20	0.191	7.03	9.04	77560	81220	99710	104410	1.10	8.0	13.8	
4	0.652	4	0.494	0.20	0.192	6.83	8.56	75320	78450	94420	98360	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 Five 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)

Syed Mansoob Ali Zaidi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Team Laeder IBC.(Rehabilitation And Modernization Of Islam Bridge)

Client Reference: IBC/16-1/1600

SOM Lab

Ref:

132 (Page-1/1)

Dated: 07-04-2022

Dated:

08-04-2022

Test: Tension Test & Bend 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.671	4	0.501	0.20	0.197	5.93	8.74	65420	66420	96340	97800	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	5.93	8.74	65420	66760	96340	98300	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	5.66	8.53	62390	63990	94090	96500	1.30	8.0	16.3	
4	0.664	4	0.498	0.20	0.195	5.61	8.21	61830	63410	90490	92810	1.30	8.0	16.3	
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Witnessed By:

Shabbir Sandha(M.S IBC), Abdul Qayyum (I/C QA QC)

**BEND TEST:**

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

Test Performed by: Amina Rajpoot

**M Nadeem**

Ibrahim Nizami Steel Wire Ind.(Pvt.)Ltd,Lahore

Client Reference No.: Nil .

Dated: 07-04-2022

SOM Lab Ref: CED/SOM/129

Dated: 08-04-2022

Test: Tensile Test

Sample Type: H.T Wire.(Marked "1")

Test Specification: ASTM-A – 82

Gauge Length: 50mm

**Tension Test Results**

Sr. No.	Weight	Dia	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Elongation
	Kg/m	(mm)	(mm <sup>2</sup> )	KN	KN	(Mpa)	(Mpa)	%
1	0.616	10.03	79.00	66.7	125.5	845	1589	6.0

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