

Engr. Hassan Mehmood

**Test Performed By:**

Dr. /Engr. Asad Ali Gillani

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

**Client Reference:** G3/DHA-NLD/RE/113

**SOM Lab**

**Ref:** 1206 (P-1/1)

**Dated:** 03-10-2022

**Dated:** 04-11-2022

**Test:** Tension Test & Bend Test

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

**Gauge 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	2.675	8	1.000	0.79	0.786	24.31	32.82	67870	68220	91640	92100	1.30	8.0	16.3	
2	2.672	8	1.000	0.79	0.785	24.16	34.96	67450	67880	97610	98230	1.30	8.0	16.3	
3	2.678	8	1.001	0.79	0.787	23.75	34.48	66310	66560	96250	96610	1.20	8.0	15.0	
4	0.670	4	0.501	0.20	0.197	6.60	8.66	72730	73840	95550	97000	1.00	8.0	12.5	
5	0.668	4	0.500	0.20	0.196	6.60	8.63	72730	74210	95210	97150	0.90	8.0	11.3	
6	0.662	4	0.498	0.20	0.195	6.80	8.65	74980	76900	95440	97880	1.00	8.0	12.5	
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**BEND TEST:**

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

Shifa Developments Services.

**Test Performed By:**

**Dr. /Engr.**

Asad Ali Gillani

Senior Project Manager, Shifa National Hospital, Lahore Skp Road, Faisalabad)

**Client Reference:** SNHF/SDS/ST/12

**SOM Lab**

**Ref:**

1209 (Page-1/1)

**Dated:** 03-11-2022

**Dated:**

04-11-2022

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge 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	2.759	8	1.016	0.79	0.811	23.85	37.31	66590	64870	104160	101460	1.20	8.0	15.0	SGI
2	2.712	8	1.007	0.79	0.797	23.55	36.29	65740	65160	101310	100420	1.10	8.0	13.8	SGI
3	1.481	6	0.744	0.44	0.435	14.37	18.60	72050	72870	93250	94320	1.20	8.0	15.0	Pak Iron
4	1.477	6	0.743	0.44	0.434	14.17	18.27	71020	72010	91560	92830	1.10	8.0	13.8	Pak Iron
5	0.675	4	0.502	0.20	0.198	6.80	8.84	74980	75740	97460	98440	1.00	8.0	12.5	Pak Iron
6	0.673	4	0.502	0.20	0.198	6.93	8.79	76440	77210	96900	97880	1.00	8.0	12.5	Pak Iron
7	0.671	4	0.501	0.20	0.197	5.42	8.07	59800	60710	89030	90390	1.20	8.0	15.0	SGI
8	0.681	4	0.505	0.20	0.200	5.50	8.48	60700	60700	93530	93530	1.10	8.0	13.8	SGI
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**BEND TEST:**

# 6(Pak) Sample bend through 180 degrees Satisfactorily without any crack

# 4(Pak) Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**

Only Ten 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)

Jafar Hussain

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Burlytex Pvt Ltd.(Project: WS#3,Plot 35-A,Ph-1-A,M-3 Industrial City,Sahianwala,Faisalabad)

Client Reference: BT/WS3/01

SOM Lab

Ref: 1210 (P-1/1)

Dated: 04-11-2022

Dated: 04-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	1.464	6	0.740	0.44	0.430	16.67	19.88	83540	85480	99640	101950	1.10	8.0	13.8	
2	0.670	4	0.501	0.20	0.197	5.93	8.92	65420	66420	98360	99860	1.30	8.0	16.3	
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**BEND TEST:**

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

Bilal Rehman  
Lahore.(42A Gulberg III Lahore)

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

Client Reference: Nil

SOM Lab

Ref: 1211 (Page-1/1)

Dated: 04-10-2022

Dated: 04-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	2.715	8	1.008	0.79	0.798	26.61	35.29	74280	73530	98520	97530	1.40	8.0	17.5	
2	2.721	8	1.009	0.79	0.800	26.35	35.02	73570	72650	97750	96530	1.40	8.0	17.5	
3	1.549	6	0.761	0.44	0.455	15.14	19.34	75880	73380	96930	93730	1.30	8.0	16.3	
4	1.551	6	0.762	0.44	0.456	15.19	19.42	76130	73460	97340	93920	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.83	8.63	75320	76460	95210	96660	1.00	8.0	12.5	
6	0.681	4	0.505	0.20	0.200	7.14	9.14	78690	78690	100830	100830	1.00	8.0	12.5	
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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)

Muhammad Irfan  
Project Engr. DHA Gujranwala.(Sector G)

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

Client Reference: 111/15/PE/RS/Pkg-2B/911

SOM Lab

Ref: 1212 (Page-1/1)

Dated: Nov 2022

Dated: 04-11-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Union 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	2.588	8	0.984	0.79	0.761	24.46	32.98	68300	70900	92060	95570	1.40	8.0	17.5	
2	2.586	8	0.984	0.79	0.760	24.43	33.13	68220	70910	92490	96140	1.40	8.0	17.5	
3	1.501	6	0.749	0.44	0.441	14.88	19.16	74600	74430	96060	95840	1.40	8.0	17.5	
4	1.498	6	0.748	0.44	0.440	14.83	19.06	74350	74350	95550	95550	1.20	8.0	15.0	
5	0.673	4	0.502	0.20	0.198	6.65	8.72	73290	74030	96110	97080	1.30	8.0	16.3	
6	0.680	4	0.505	0.20	0.200	6.90	9.07	76100	76100	100050	100050	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)

Salman Aziz

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE Nespak Lhr.(Const Of Parking Plaza at Central Business Dev Phase-I Lahore)

Client Reference: 4323/13/SA/09-NLC/129

SOM Lab

Ref:

1213 (Page-1/1)

Dated: 04-11-2022

Dated:

04-11-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (SJ 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	0.689	4	0.507	0.20	0.202	7.00	9.53	77230	76460	105100	104060	1.20	8.0	15.0	
2	0.695	4	0.510	0.20	0.204	6.93	9.50	76440	74940	104770	102710	1.10	8.0	13.8	
3	0.677	4	0.503	0.20	0.199	6.73	9.09	74190	74560	100270	100770	1.30	8.0	16.3	
4	0.670	4	0.501	0.20	0.197	6.83	8.99	75320	76460	99150	100660	1.30	8.0	16.3	
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Witnessed By: Fahad Hussain,ME (NESPAK)

**BEND TEST:**

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

Engr. Mian Mubashar Rafiq

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

PM Union Developers Lhr.(const. Of Union Luxury Apartments,Etihad Town Lahore.)

**Client Reference:** UA/SO/2022/031

**SOM Lab**

**Ref:**

1214 (Page-1/1)

**Dated:** 03-11-2022

**Dated:**

04-11-2022

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Afco 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	0.672	4	0.501	0.20	0.197	7.56	9.14	83410	84680	100830	102370	1.00	8.0	12.5	
2	0.672	4	0.501	0.20	0.197	7.59	9.19	83750	85020	101390	102940	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>  Only Three 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)

M.Waqas Anwar

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

RE Nespak Lhr.(Rehb/Renov Works of Ravi bridge Saggain Toll Plaza And Phool Mandi R/About Lhr)

Client Reference: 3772/SRP-RW/103/MWA/04/08

SOM Lab

Ref: 1215 (Page-1/3)

Dated: 19-09-2022

Dated: 04-11-2022

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	2.671	8	1.000	0.79	0.785	33.44	39.04	93340	93940	108990	109690	1.20	8.0	15.0	
2	2.677	8	1.001	0.79	0.787	33.33	39.55	93060	93410	110420	110840	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 Three 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)



M.Waqas Anwar

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

RE Nespak Lhr.(Rehb/Renov Works of Ravi bridge Saggain Toll Plaza And Phool Mandi R/About Lhr)

Client Reference: 3772/SRP-RW/103/MWA/04/07

SOM Lab

Ref: 1215 (Page-2/3)

Dated: 15-09-2022

Dated: 04-11-2022

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	1.504	6	0.750	0.44	0.442	17.30	20.13	86710	86320	100910	100460	1.60	8.0	20.0	
2	1.502	6	0.749	0.44	0.441	17.15	20.29	85940	85750	101680	101450	1.20	8.0	15.0	
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**BEND TEST:**

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

M.Waqas Anwar

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

RE Nespak Lhr.(Rehb/Renov Works of Ravi bridge Saggain Toll Plaza And Phool Mandi R/About Lhr)

Client Reference: 3772/SRP-RW/103/MWA/04/06

SOM Lab

Ref: 1215 (Page-3/3)

Dated: 07-09-2022

Dated: 04-11-2022

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	0.676	4	0.503	0.20	0.199	5.93	8.82	65420	65750	97230	97720	1.30	8.0	16.3	
2	0.682	4	0.505	0.20	0.200	5.93	8.84	65420	65420	97460	97460	1.50	8.0	18.8	
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**BEND TEST:**

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

**Test Performed by:** S. Asad Ali Gillani

Kiran Saeed Butt  
Operations Manager  
AFKO Global Engineering (Pvt) Ltd.  
Floor 1 & 2, Rehman Plaza,257-G4,Johar Town, Lahore.

**Client Reference No.:** AGE/Lhr/1272/22

Dated: 03-11-2022

**SOM Lab Ref:** CED/SOM/1205 (Page 1/3)

Dated: 04-11-2022

**Test Type:** Tensile Test

**Sample Type:** Threaded Rods M20

**Test Specification:** ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Threaded Rod M20	14.0	117.0	760.05	15.0

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

**Test Performed by:** S. Asad Ali Gillani

Kiran Saeed Butt  
Operations Manager  
AFKO Global Engineering (Pvt) Ltd.  
Floor 1 & 2, Rehman Plaza,257-G4,Johar Town, Lahore.

**Client Reference No.:** AGE/Lhr/1272/22

Dated: 03-11-2022

**SOM Lab Ref:** CED/SOM/1205 (Page 2/3)

Dated: 04-11-2022

**Test Type:** Tensile Test

**Sample Type:** Threaded Rods M16

**Test Specification:** ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Threaded Rod M16	12.0	61.2	541.13	12.50

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

**Test Performed by:** S. Asad Ali Gillani

Kiran Saeed Butt  
Operations Manager  
AFKO Global Engineering (Pvt) Ltd.  
Floor 1 & 2, Rehman Plaza,257-G4,Johar Town, Lahore.

**Client Reference No.:** AGE/Lhr/1272/22

Dated: 03-11-2022

**SOM Lab Ref:** CED/SOM/1205 (Page 3/3)

Dated: 04-11-2022

**Test Type:** Tensile Test

**Sample Type:** Hexagon Bolt M16

**Test Specification:** ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	Hexagon Bolt M16	10.0	44.7	569.14	25.0

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

**Test Performed by:** Dr. Asad Ali Gillani

Engr. Zaheer Ud Din Babar,  
Dy.General Manager Projects,  
Habib Rafiq Engineering (Pvt.)Ltd,Lahore  
(Construction Of Sky Gardens Tower,Lahore.)

**Client Reference No.:** HRLE/SKG/2022/082

Dated: 04-11-2022

**SOM Lab Ref:** CED/SOM/1207(Page-1/2)

Dated: 04-11-2022

**Test:** Tensile Test

**Sample Type:** M.S Deformed Steel bar with Coupler

### Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	( mm )	(mm <sup>2</sup> )	kN	kN	(Mpa)	(Mpa)	
1	22	380	169.50	221.70	446	583	Steel Sample Breaks at this Load

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

**Test Performed by:** Dr. Asad Ali Gillani

Engr. Zaheer Ud Din Babar,  
Dy.General Manager Projects,  
Habib Rafiq Engineering (Pvt.)Ltd,Lahore  
(Construction Of Sky Gardens Tower,Lahore.)

**Client Reference No.:** HRLE/SKG/2022/083

Dated: 04-11-2022

**SOM Lab Ref:** CED/SOM/1207(Page-2/2)

Dated: 04-11-2022

**Test:** Tensile Test

**Sample Type:** M.S Deformed Steel bar with Coupler

### Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield stress	Ultimate stress	Remarks
	( mm )	(mm <sup>2</sup> )	kN	kN	(Mpa)	(Mpa)	
1	16	201	----	117.5	----	584	Steel Sample Breaks at this Load

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

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

Engr.M Umar Ashraf

Project Engineer

FESCON Pvt. Ltd.

**Client Reference:** FESCON/DHAM/EE/UET/2

**Dated:** 04-11-2022

**SOM Lab Ref:** CED/SOM/1208(Page-1/1)

**Dated:** 04-11-2022

**Test:** Tension Test

**Test Specification:** ASTM-F -1554

**Sample Type:** Y- Bolt

**Gauge Length:** 50 mm

S.No.	Measure Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Remarks
	mm	mm <sup>2</sup>	kN	kN	MPa	MPa	mm	mm	%	
1	12	113	46.20	62.70	408	554	15.0	50	30.0	-
2	12	113	48.20	67.20	426	594	12.5	50	25.0	-
-	-	-	-	-	-	-	-	-	-	-

**Note:-**

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)



